SmartTouch®

Master

User's Guide

64056470
R05

METTLER TOLEDO customer:

Your new Model **Smart*Touch*®** Master is very simple to use and requires minimum maintenance. This unit comes from a proud tradition that has made METTLER TOLEDO® the worldwide symbol of the highest quality in precision weighing equipment.

Please read these instructions carefully. You will find that operating the unit is very simple. In the unlikely event you should experience difficulties, contact your nearest authorized METTLER TOLEDO Service Office, listed under "scales" in the yellow pages of your telephone directory.

Properly used and maintained, your new **Smart*Touch*®** Master will provide years of service which will protect your profits and your customers. Please handle your new **Smart*Touch*®** Master as you would any fine electronic equipment.

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METTLER TOLEDO®

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METTLER TOLEDO SmartTouch Master User's Guide 64056470

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Publication Revision History

Part Number	Date	Revisions
A14736800A	6/99	Update to include STEM, Frequent Shopper, new software features.
64056470 rev 00	8/05	Updated to include new Master SW
64056470 rev 01	8/06	Update to include REM, new screens, COOL
64056470 rev 02	11/06	Updated REM
64056470 rev 03	01/07	Updated REM
64056470 rev 04	12/07	Updated network diagram, REM information
64056470 rev 05	08/09	Updated Network Specs; chapter 2; chapter 7

METTLER TOLEDO® reserves the right to make refinements or changes without notice.

Disposal

In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

Thank you for your contribution to environmental protection.

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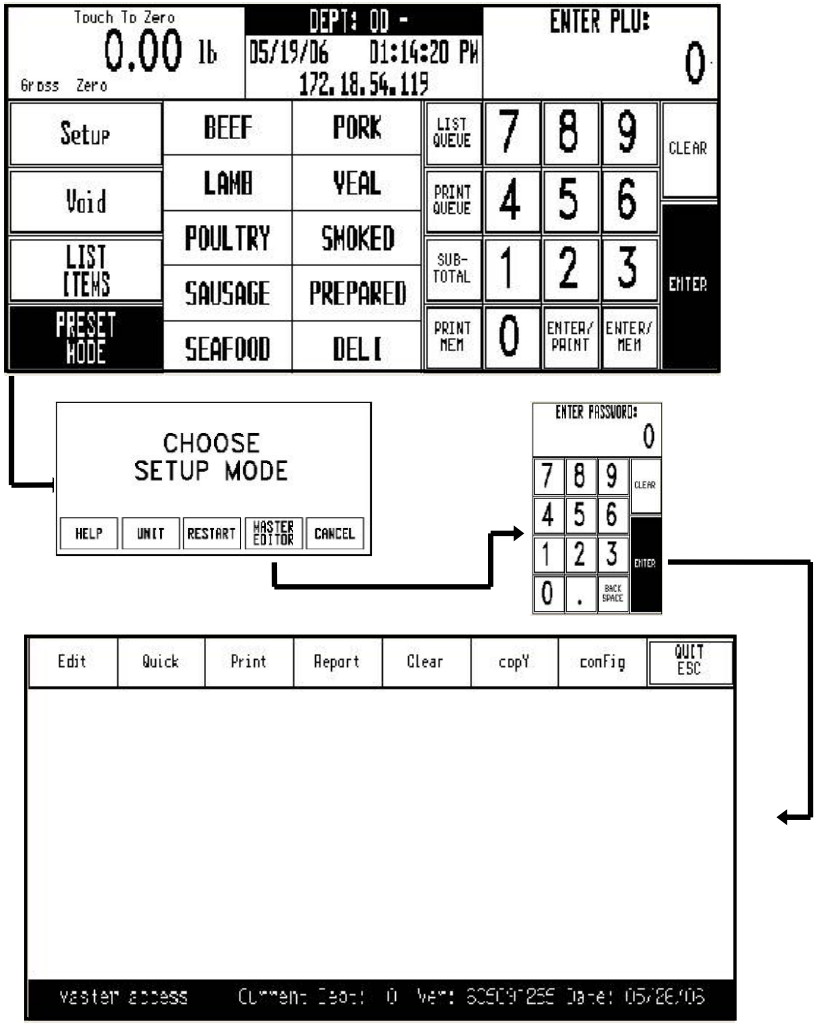
1 Introduction

Master Editor

To access the Master Editor from a model 8361, 8461, or UC-ST, press the SETUP key. The **Choose Setup Mode** message will appear. Touch the MASTER EDITOR key.



Master Editor Main Menu

The Master Editor will time out after 20 minutes of inactivity if idle in the Master Editor Mode. While one scale is in the Master Editor, other scales or a host cannot communicate with the master.

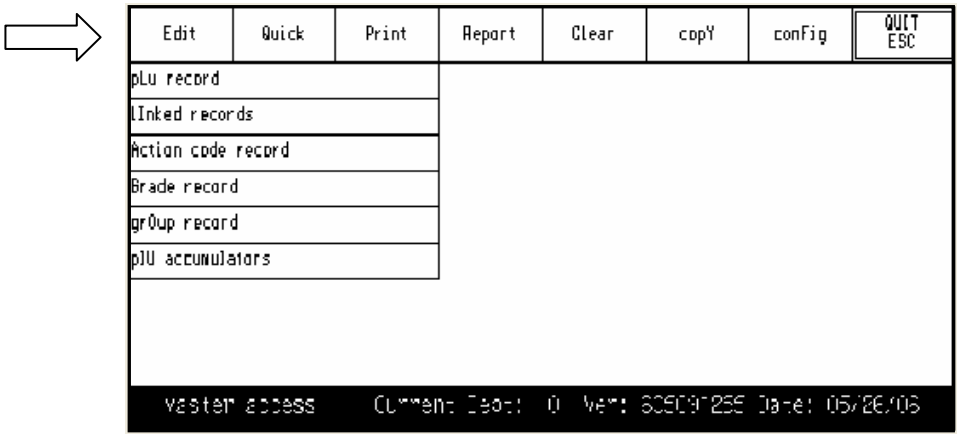
If another scale is currently accessing the Master Editor, the message **MASTER EDITOR CURRENTLY UNAVAILABLE** will be displayed and you will need to try again at a later time. If you are not communicating with the master (you are off-line), an **ERROR COMMUNICATING WITH THE MASTER** message will be displayed, and you will need to re-establish communication before continuing.

Otherwise, the numeric keyboard will be displayed prompting for a password. If no password has been programmed, just touch ENTER. When the Master Editor menu opens, the current access level, department number, software version, and the Master's

current date will be displayed at the bottom of the screen. Touching QUIT will end the Master Editor session.

Touching the menu titles at the top of the screen will activate the pull down menu for that option.

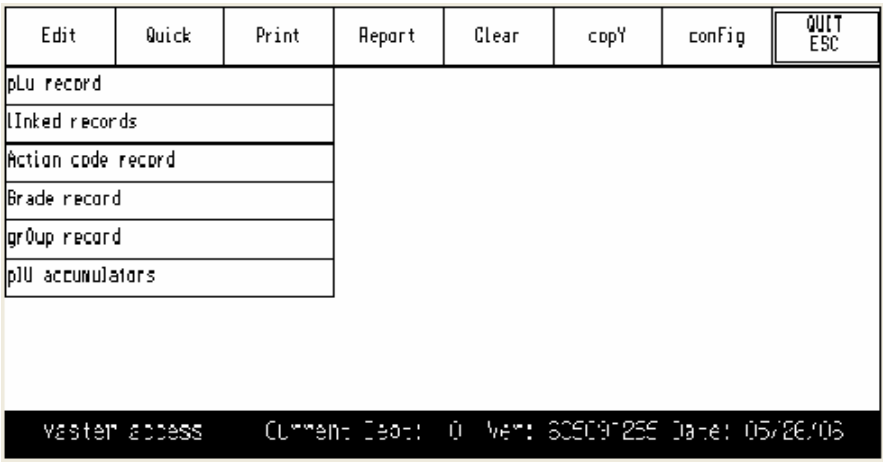
In the illustration below the EDIT menu was touched.



Drop Down Menus, Edit Menu

2 Master Editor, Edit Menu

This chapter covers functions found under the Edit Menu in the Master Editor.



Master Editor Edit Menu

Edit-PLU Record

The **EDIT-PLU RECORD** menu is used to create and edit PLU records. All of the fields in a PLU can be edited here.

To begin editing, touch EDIT followed by PLU RECORD to display the numeric keyboard for the entry of the PLU number.

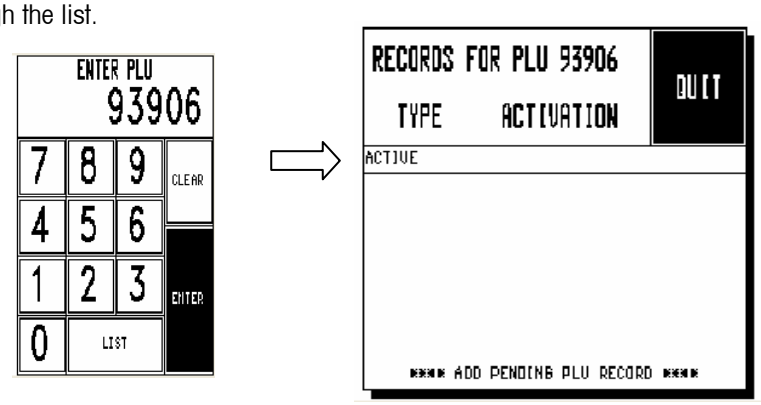
Add a PLU

To add a new PLU, enter a PLU number that has not been used through the numeric keyboard. A **PLU NOT FOUND** message will appear with 3 options. Touch CANCEL to return to the numeric keyboard, ADD ACTIVE to add an active PLU, or ADD PENDING to add a pending PLU. When adding new PLUs, you will be prompted for all of the fields of the PLU. An *Active* PLU record will be immediately added to the database. A *Pending* PLU can have a future activation date. A *Pending* PLU record becomes an Active record when it is activated.

You will be prompted to add information to the valid fields one at a time. You can quit at any time and return to edit the PLU information. Refer to the following sections for details on valid data for each of the fields. If you quit and return later to edit the new PLU, you will see all of the fields on two screens as shown in the following section titled "PLU Edit Screen".

Edit a PLU

To edit an existing PLU, enter the number through the numeric keyboard or choose one through the list.



Choosing a PLU Record to edit

After a PLU has been entered, the data base is searched for all records with a matching PLU number within the current department. A list of active and pending PLU records will be displayed. Only one active record is allowed per PLU.

To return to the numeric keyboard, touch QUIT. To edit an existing record, touch that record and the PLU Edit screen will display.

Price Change Only (PCO) Pending PLUs can be sent from a host (such as Intelli-Net) to the Master. When using the Master Editor, PCO Pending PLUs will only show the PLU/Item numbers, price, and effective time/date. A PCO Pending PLU cannot be edited or deleted in the Master Editor.

To add a pending record, touch ****** ADD PENDING PLU RECORD ****** and the PLU Edit screen will display with the data copied from the active record (or the oldest pending record, if no active record exists).

PLU NUMBER:	93906	SHELF LIFE:	5	QUIT
ITEM NUMBER:	00D00D00093906	USE BY DAY:	D	
DESCRIPTION:	STUFFED POTATO SHELLS	GROUP:	NONE	
DESCRIPTION:	GARLIC	GRADE:	NONE	DOWN
DESCRIPTION:		TEXT NUMBER:	93906	
DESCRIPTION:		NF NUMBER:	NONE	DELETE
PLU TYPE:	STD PACK	GA NUMBER:	NONE	
COUNT:	3	ACTION CODE:	NONE	
OUNCES:	FORCED	BARCODE TYP:	UPC	
		BARCODE PRE:	UPC PREFIX 2	
TOTAL PRICE:	6.00	BARCODE FMT:	NNNNN C$$$$	

If Obsolete PLUs are enabled in the master, an obsolete PLU will be created when the pending record takes effect. The Obsolete PLU will take on the accumulator of the original PLU and the effective time and date of the pending PLU. The new PLU accumulators will be zero.

If a pending record exists but an active record does not, there will be an ****** ADD ACTIVE PLU RECORD ****** box as well. When this box is touched, the PLU Edit screen will appear with the data copied from the oldest existing pending record.

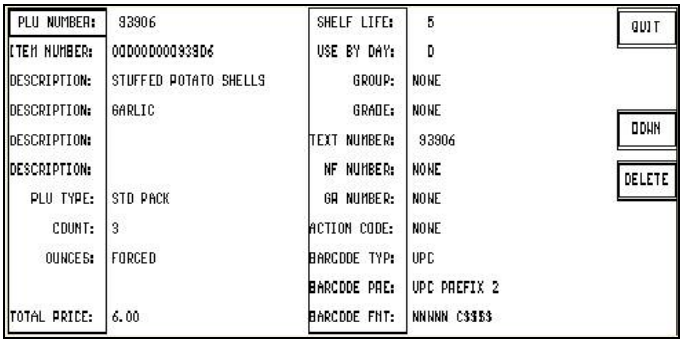
PLU Edit Screen

The PLU Edit Screen is used when the entire PLU record needs to be modified. (If only one field of the *active* PLU needs to be modified, this can be done through the Quick menu option).

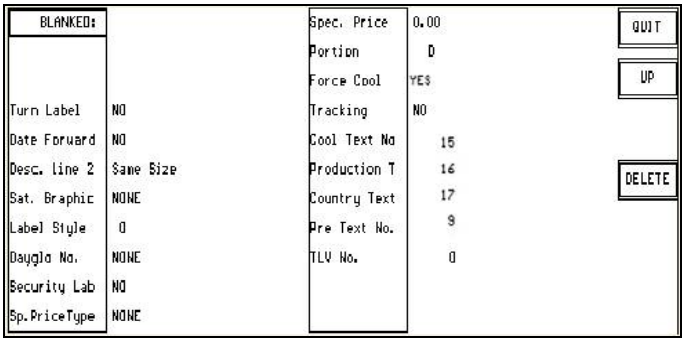
Touching QUIT displays a **SAVE CHANGES** prompt. Touch YES to save changes and return to the numeric keyboard, NO to return to the numeric keyboard without saving changes, or CANCEL to return to the PLU Edit screen.

Touching DELETE displays a confirmation screen. Touch YES to delete the record and return to the numeric keyboard or NO to return to the PLU Edit screen. The DELETE key is only available when editing existing PLUs.

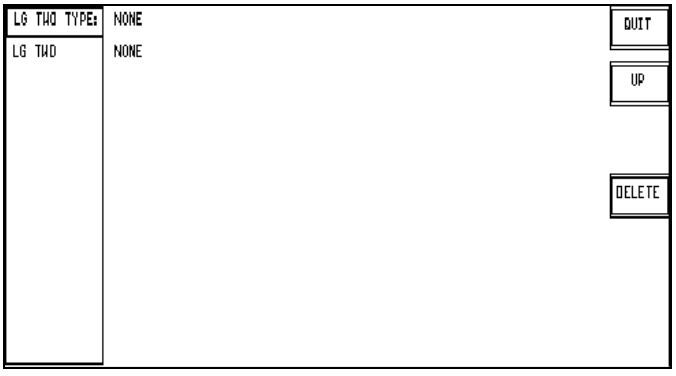
To EDIT a field, touch that field and follow the editing instructions. The following shows screen one and two of the PLU edit mode.



Screen 1



Screen 2



Screen 3

PLU Fields

PLU Number

The PLU number can be from one to six digits (1-999999) and must be unique within the current department. If it is not, a **PLU NUMBER ALREADY EXISTS** message is displayed and the PLU numeric keyboard is redisplayed. When the PLU record is saved, all other records (pending or active) for that PLU in the current department will have their PLU number automatically changed to the new number. This is the only field that automatically updates other records with the same PLU number.

Item Number

The Item number can be from one to 10 digits, but the bar code may only use the 5 or 6 least significant digits depending on the barcode format. If the master has been set up for unique item numbers (located in Master editor, Config Menu, PLU record defaults) and the item number entered is not unique, an **ITEM NUMBER ALREADY EXISTS** message is displayed and the item number numeric keyboard is redisplayed.

Description

Up to four lines of description are allowed per PLU record. An alphanumeric keyboard is presented for editing each line of description. Each line may be up to 32 characters long. (Note: The label format may need to be revised in order to accommodate the additional lines of description if the master software is Version 3.2 or above.)

PLU Type

PLU types are pricing modes, including **Price Per Pound, Pounds For, Price Per Half Pound, Price Per Quarter Pound, By Count, Standard Pack,** and **Manual**. The choice of PLU type affects some of the menu options for the PLU Edit screen. If a change in PLU type is made that changes one of these options, the default value for the new option is assigned.

Pounds/Count

This field changes depending on the PLU type. For **Pounds For** PLUs, this field is titled **POUNDS** and when selected presents a numeric keyboard for the entry of the number of pounds (default = 1). For **By Count** and **Std Pack** PLUs, it is titled **COUNT** and when selected presents a numeric keyboard for the entry of the number items (default = 1). For **Price Per Pound, Price Per Half Pound, Price Per Quarter Pound,** and **Manual** PLUs this field is blank and disabled.

Tare1/Ounces

This field changes depending on the PLU type. For **Price Per Pound, Price Per Half Pound, Price Per Quarter Pound**, and **Pounds For** PLUs, this field is titled **TARE1** and when selected presents a numeric keyboard for the entry of the tare weight (default = 0.00). For **Std Pack** PLUs, it is titled **OUNCES** and when selected presents a numeric keyboard for the entry of the number of ounces in a pack. For **By Count** or **Manual** PLUs, this field is blank and disabled.

Tare2

This field changes depending on the PLU type. For **Price Per Pound, Price Per Half Pound, Price Per Quarter Pound**, and **Pounds For** PLUs, this field is titled **TARE2** and when selected, a **SELECT TARE2 TYPE** screen is presented. Tare2 can be a fixed weight or forced so that the operator must enter the tare. A **PERCENTAGE** option is displayed but functions as the **FIXED WEIGHT** tare. If **FIXED WEIGHT** or **PERCENTAGE** are selected, a numeric keyboard prompts for the values of a tare weight (default=0.00). If **FORCED** is selected, the word **FORCED** appears in that field. This tare is available for the situation when 2 different tares are needed for the same product (ex. - with meat products, one tare is for the back room, and one tare is for the counter, after the meat has been re-packaged). For the older equipment (8422/23/27/8305), the TARE2 value is not interpreted and the TARE1 value is automatically used. With the Model 8360, 8361,

8460, and 8461 **Smart*Touch*®** satellites, the TARE value used is chosen through the Unit Setup menu (see the specific model's service manual for setup information). For **By Count, Standard Pack**, and **Manual** PLUs, this field is blank and disabled.

Unit Price/Total Price

This field changes depending on the PLU type. For **Price per Pound, Price Per Half Pound, Price Per Quarter Pound**, and **Pounds For** PLUs, this field is titled UNIT PRICE and when selected presents a numeric keyboard for the entry of the unit price (default = $0.00). For **By Count** and **Standard Pack**, it is titled TOTAL PRICE and when selected presents a numeric keyboard for the entry of the total price (default = $0.00). For **Manual** PLUs this field is blank and disabled.

Shelf Life

The Shelf Life is represented by the number of days after the pack (current) date and can be in the range of 0 to 999 (default = 0).

Use By Day

A numeric keyboard is presented for the entry of the use by (eat by) days. The value is represented by the number of days after the pack (current) date and can be in the range of 0 to 999 (default = 0).

Group

A numeric keyboard is presented for the entry of the group number (1-500). Once a group number is assigned in a department, it can not be used by any other department. When the groups are listed (through the numeric keyboard) or printed, only the groups for the chosen department will be displayed. If a new group number is chosen that is already in use by another department, a **GROUP NUMBER ALREADY ASSIGNED** message will display and you must choose a different group number. When a new group number is entered, the alphanumeric keyboard will display for the entry of a 10-character group name.

Grade

A numeric keyboard is presented for the entry of the grade number (1-16) or touch LIST to choose from the list of grade records.

Text Number

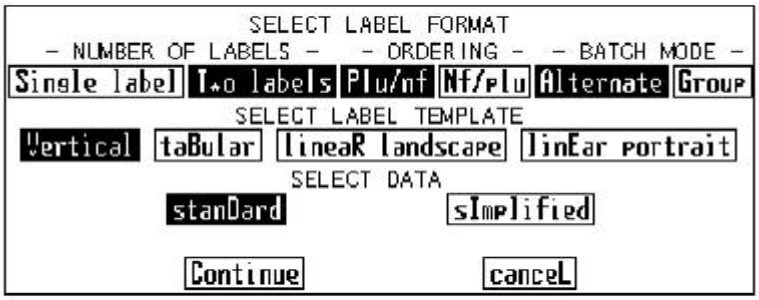
A numeric keyboard is presented for the entry of the text number (1-999999). If a new text number is selected, an **EXTRA TEXT RECORD NOT FOUND** message will display with three options. Touching ADD EXTRA TEXT presents a numeric keyboard requesting the number of characters per line (1-54, default = 42) and then advances to the Extra Text Edit screen. If no QWERTY keyboard is attached an error message is shown. Touching COPY FROM TEXT RECORD presents a numeric keyboard (with the list option) requesting the extra text number of the extra text record you wish to copy and then advances to the Extra Text Edit screen with the copied extra text displayed. Touch CANCEL to return to the extra text numeric keyboard.

Note: The QWERTY keyboard is required. Up to 60 lines of extra text can be entered. When finished editing, press F10 on the QWERTY keyboard to save and exit or ESC to exit without saving.

Note: Nutrifacts records are typically created and maintained from a host application.

NF (Nutrition Facts) Number

A numeric keyboard is presented for the entry of a Nutrition Facts record number (1-999999). If a new Nutrition Facts number is entered, you will be prompted with the Nutrition Facts Selection screen. Select the proper setup by touching the desired items, then touch CONTINUE.



Nutrition Facts Selection Screen

At this point, edit screens (most of them numeric keyboards) will display for the entry of all of the Nutrition Facts fields.

GR (Graphics) Number

A numeric keyboard is presented for the entry of a Graphics number (1-999999) corresponding to a graphics image resident in the Master. Graphics images are created in a graphics program that can create and edit raster images and save them as monochrome (black and white) PCX files up to approximately 6k. The graphic images are assigned a number and downloaded to the Master through a host. Refer to the MTSmartX manual for more information about downloading graphics images.

Action Code

A numeric keyboard is presented for the entry of the Action Code (1-50). An Action Code will perform some function when the PLU is called. Action Code setup and functions are described later in this section.

Barcode Type

Touch the desired bar code type to select UPC, EAN, or RSS.

Barcode Prefix

Select the barcode prefix.

0 Type 0 Prefix (No price is encoded)
1 Type 1 Prefix (No price is encoded)
2 Type 2 Random-Weight. Item number/total price encoded.
3 Type 3 Prefix (No price is encoded)
4 Type 4 Prefix (No price is encoded)
5 Type 0 Prefix (No price is encoded)
6 Type 6 Prefix (No price is encoded)
7 Type 7 Prefix (No price is encoded)
8 Type 8 Prefix (No price is encoded)
9 Type 9 Prefix (No price is encoded)

When the **Smart*Touch*®** Master is configured for EAN barcodes, you will be asked to enter the EAN Flag 2 digit.

Barcode Format

When a Type-2 UPC Bar Code is selected or if the Bar Code is configured as EAN, the format of the symbol must be configured, as follows: (N=Item Number, C=Price/Weight Check Digit, $=Total Price, X=Bar Code Check Digit, #=Weight).

UPC Formats	EAN Formats
NNNNN C$$$$X	NNNNN N$$$$X
NNNNN O$$$$X	NNNNN $$$$$X
NNNNN N$$$$X	NNNN$ $$$$$X
NNNNN $$$$$X	NNNNN C$$$$X
NNNNN C####X	NNNNC $$$$$X
NNNNN O####X	NNNNN #####X
NNNNN N####X	NNNNC #####X
NNNNN #####X	

Blanked

A menu lists fields for which printed (label) output may be blanked. These are in addition to fields that may be blanked through the numeric keyboard. Touching the item in the menu toggles the state from Normal to Blanked. When all the fields have been set as desired, touch QUIT to return to the main edit screen. The data line for this item displays the items which have been toggled to Blanked: PACK - Pack Date, WEIGHT - Net Weight, UNIT - Unit Price, TOTAL - Total Price.

Activation Date

This field is only available on Pending PLU records. A menu is presented to select when the Pending record becomes active. Touching MONTH (1-12), DAY (1-31), YEAR (0-99), or HOUR (0-23) presents a numeric keyboard for entering the desired value. Touch DONE to return to the PLU Edit screen.

Active Hour

This field is only available on Pending PLU records. A numeric keyboard is presented for entering the hour for activation (0-23). Changing the Active Hour here also changes it in the Activation Date edit. Changing the Active Hour through editing the Activation Date also changes the Active Hour here.

Turn Label

This field toggles between YES and NO. If YES, both labels will be rotated 90 degrees when applied by the applicator. (Used only by a SmartTouch Prepack Controller with Printer/Applicator.)

Date Forward

This field toggles between YES and NO. If YES, one will be added to the shelf life or use by date at the hour determined in Unit Setup, Change Time/Date. This function will advance the date one day for items packed late in the day.

Desc. Line 2

This field defines the size of lines 2-4 of the description lines. The line can be larger, smaller or the same size as the first description line.

Sat. Graphic

This field is for the entry of a satellite graphic number used only by the 8360 or 8361. There are fifteen (1-15) built-in graphics and the Safe Handling Panel on the **Smart*Touch*®** 8360 or 8361 satellite. See Chapter 9 for examples of the graphics images.

Label Style

This field presents a numeric keyboard for the entry (0-15) of label styles. This number indicates which style of label will be printed for this PLU. Style 0 is the default format configured at the satellites. Styles 1-15 will override the default style for a PLU. When FlexEAN enabled, entry of 0-7 will use UPC codes. Entry of 8-15 style will cause EAN barcodes to print on the label.

DayGlo No.

This field is the linked graphics number for the 317 DayGlo label which may be printed on Printer 2 of the Prepack Controller. Satellite graphics are not available on DayGlo labels. Graphic Images are downloaded to the master from a host program such as Intelli-Net®.

Security Lab

The Security Label field is used by the Prepack Controller with a Model 702 Bottom Applicator to select whether to apply (Yes) or not apply (No) a bottom label. This feature does not work with the Model 702 Standalone with the Model 602 Labeler.

Sp. Price Type

After highlighting "Sp. Price Type" the following screen will appear for you to make a selection.

Special Pricing TYPE Selection Screen

Feature Price	XXXX.XX - This is a "LIST PRICE" (similar to a Mfg. Suggested List Price). The amount entered is always higher than the PLU unit price.
Member Price	XXXX.X - Discounted price for By-Weight, By-Count, or Std. Pack PLUs.
Percent Discount	1 – 99% - A percentage off the Total Price for By-Weight, By- Count, or Std. Pack PLUs.
Discount Per Pack	XXXX.XX - This is a specific amount off the Package Total Price for By-Weight, By-Count, or Std. Pack PLUs.
None	The value will default to zero and editing is disabled.

Note: COOL Text records are typically created and maintained from a host application.

Special Price

After touching **Special Price** a keypad will display to enter the discount amount.

Once a selection for "Special Pricing Type" has been made and you wish to make a change, simply touch SPECIAL PRICING in the Master Edit PLU screen to display the keypad. Touch CLEAR to void any special pricing entries.

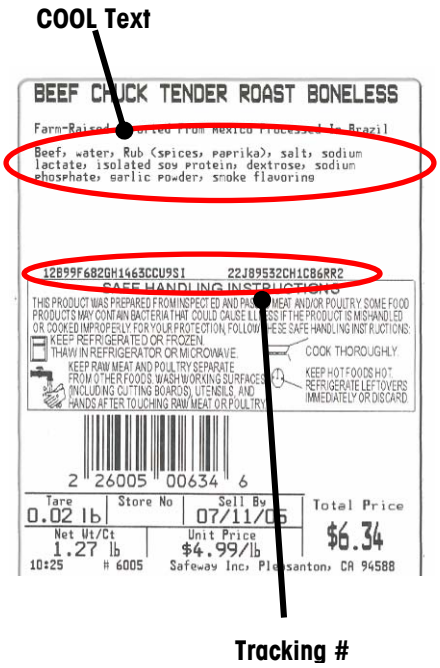
The "List Price" is always a higher value than the regular unit price. It is similar to a "Mfg. Suggested Retail Price". Using this type of pricing will not require the POS software to make any new calculations. The regular total price (the lower amount) will print in the barcode and the customer receives the discounted total price.

PLU #1145 Beef for Stew

Unit Price $1.49 per lb.

List Price $2.00 per lb.

The Total price will appear in the bar code and be charged to the customer. The higher "List price" will also print on the label.



Portion
Enter the value of a portion for one serving size for this product.

Force COOL
Select YES to force an operator at the scale to select a COOL (Country of Origin) text every time the PLU is called. NO allows programmed COOL without requiring the operator to manual select one.

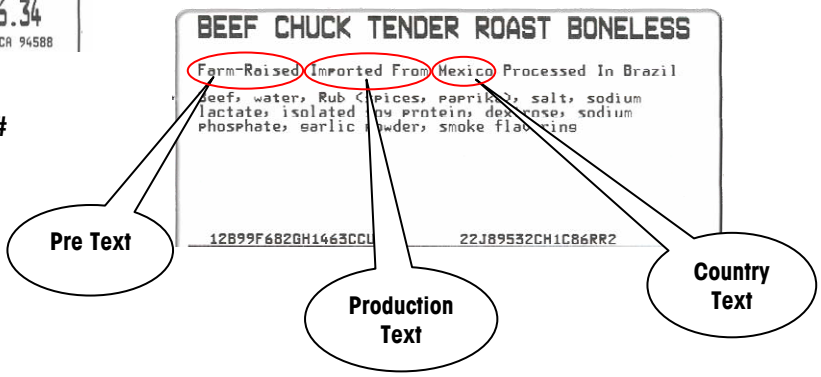
Tracking
Enter the tracking number for this product.

COOL Text Number
Enter the COOL text you wish associated with the product.

Production Text Number
Enter the production text you wish associated with the product.

Country Text Number
Enter the country text you wish associated with the product.

Pre Text Number
Enter the pre-text you wish associated with the product.



TLV Number
Using the keypad, enter the Tag Length Value (TLV) reference number you wish to have associated with the product.

LG (Linked Graphic) Type One
This category is used to determine how the linked graphic is used. Options include – as Extra Text, Graphic and Large Graphic and also whether or not to print the linked graphic on the label.

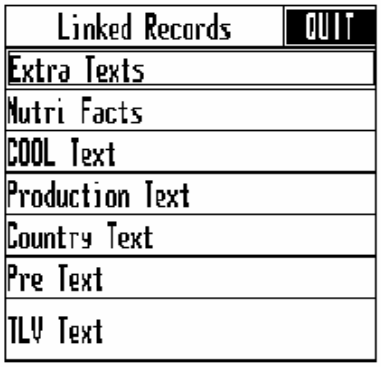
LG One
Choose the number of the first linked graphic to reference

LG Type Two
This category is used to determine how the linked graphic is used. Options include – as Extra Text, Graphic and Large Graphic and also whether or not to print the linked graphic on the label.

LG Two
Choose the number of the second linked graphic to reference.

Edit - Linked Records

Use this menu to edit linked records including Extra Texts, Nutrition Facts, Action Codes, COOL Text, etc.



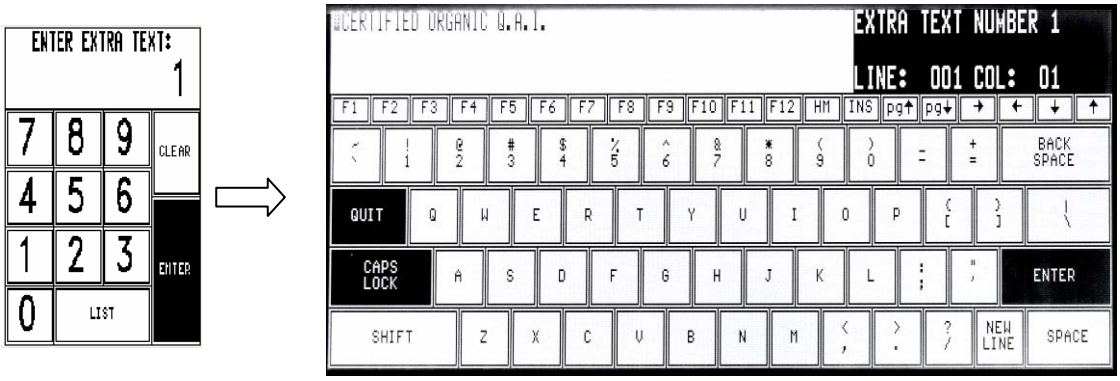
Linked Records Selection Screen

Extra Texts

Extra text records are used for recipes or additional printed information on the label. They are created in the Master Editor or a host program, and assigned to PLUs (up to six digits, 1-999999). Extra text records can be linked to more than one PLU in any department and can be linked together (Chained).

Extra Text Edit Screen

You can type in up to 60 lines of extra text. When finished editing, press **F10 to save** and exit or **QUIT to exit without saving**.



Extra Text Edit Screen

Add Extra Text

To add a new Extra Text record, enter an unused number. An **EXTRA TEXT RECORD NOT FOUND** message will appear with 3 options. Touch ADD EXTRA TEXT then enter the number of characters per line (1-54, 42 default) and type in the text on the editor screen. Touch COPY FROM TEXT RECORD to copy a record, or touch CANCEL to return to enter another extra text number.

Bold and Underlined Text

Bold and underlined text can be embedded into the text record using special characters. The shift into bold font character is the 2 characters <<. The shift out of bold font character is the character pair >>. The shift into underline is the underline character "_" and the shift out is a following underline character "_". The bold and underline can be combined to print bold and underlined text.

- If the << is encountered without the corresponding >>, the entire remaining text is bolded.
- If the >> is encountered before the corresponding <<, no bolding effect occurs
- Note: The two pairs << and >> cannot be printed on a label.
- Bold and underline can be used together. <<<_Bold_>>> or <_<< Bold>>_> will give the result **Bold**.

Chain Extra Text

To chain Extra Text records, do the following on a new record in the Extra Text Editor:

Press:	F9	
Type:	+	
Type:	NNNNNN	(Extra Text number you wish to link up to six digits.)
Type:	T	(uppercase T)
Press:	ENTER	

When printed on a label, the text will look like it is from one record.

Edit Extra Text

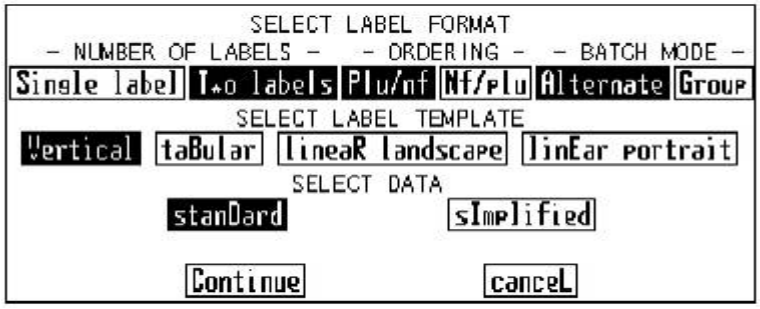
To edit an existing Extra Text record, verify that the QWERTY keyboard is installed, then enter an existing Extra Text number through the numeric keyboard or choose from the list. A screen listing the extra text number with three options will display. Touch CANCEL to return to the Extra Text numeric keyboard, DELETE to delete the Extra Text Record (after confirmation), or EDIT to advance to the Extra Text Edit screen.

Nutrition Facts

Nutrition Facts records are used to print nutrients, vitamins, minerals and dietary information (per FDA 21 CFR part 101). Nutrition Facts are created and edited in the Master Editor and assigned to PLUs through their identification number (1-999999). Nutrition Facts records can be linked to more than one PLU in any department. To edit Nutrition Facts records, touch EDIT followed by NUTRITION FACTS to display the numeric keyboard for the entry of a Nutrition Facts number.

Add a Nutrition Facts Record

To add a new Nutrition Facts record, enter a number that has not been used for a Nutrition Facts record through the numeric keyboard. The Select Label Format Screen will display.



Select Label Format Screen

Adjust all of the parameters to the desired values, and touch CONTINUE when finished. To return to the Nutrition Facts numeric keyboard without creating a record, touch CANCEL.

Number of Labels

Select the appropriate number of labels, **Single label** or **Two labels** by touching the corresponding box. With a single label, the printer will use the label format assigned by PLU type. The user must create custom format labels for each PLU type with the required PLU and Nutrition Facts information. This function is not operational in the Models 8360/8361/8460 since dual labels are not functional. With two labels, the printer will perform as if a single label were selected.

Ordering

This option will only be present when a Two Label record has been selected. Touch **Plu/nf** to print the PLU label first and the Nutrition Facts label second or **Nf/plu** to print the Nutrition Facts label first and the PLU label second. This function is not operational in the Models 8360/8361/8460 since dual labels are not functional.

Batch Mode

This option will only be present when Two Labels have been selected and only applies when multiple 2 label sets are being printed. (Multiple sets are printed when Standard Pack or By Count PLUs have the **<No. of Labels>** set to a value that is greater than one.) Touch **<Alternate>** to alternate the printing of the PLU and Nutrition Facts labels or **<Group>** to print all of the PLU labels together and all of the Nutrition Facts labels. This function is not operational in the Models 8360/8361/8460 since dual labels are not functional.

Select Label Template

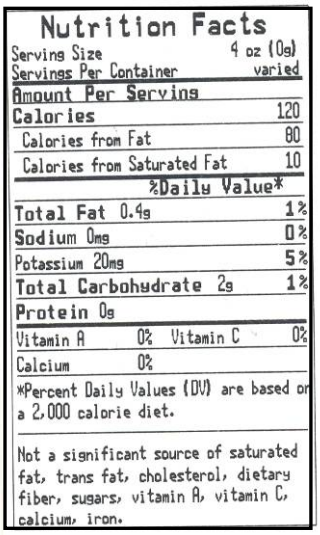
The Label Template determines how the data is printed and which data is printed. Touch the appropriate box to determine the template for the Nutrition Facts label.

Vertical - The vertical template is a variable length template printed with text perpendicular to the direction of label movement. It can use either the standard data set or the simplified data set. To specify the following formats, select the **Vertical** template, then select either the **standard** or **simplified** data type.

Note: METTLER TOLEDO has applied for and FDA has verbally approved a variance for METTLER TOLEDO products to use 2 lines to print "Calories" and "Calories from fat" instead of a single line.

- **Vertical Standard**: The Vertical Standard format is the normal format used for Nutritional information. All other formats are variations of this format and can only be used in special applications. See 21 CFR part 101.9(d). The Vertical Standard format includes all of the required fields and those voluntary fields that do not have a blank value. This format also has a footnote that includes the recommended Daily Value for a 2000 and 2500 calorie diet.

Vertical Standard Nutrifacts Format


Nutrition Facts
Serving Size 4 oz (0g)
Servings Per Container varied
Amount Per Serving
Calories 120
Calories from Fat 80
Calories from Saturated Fat 10
%Daily Value*
Total Fat 0.4g 1%
Sodium 0mg 0%
Potassium 20mg 5%
Total Carbohydrate 2g 1%
Protein 0g
Vitamin A 0% Vitamin C 0%
Calcium 0%
*Percent Daily Values (DV) are based on a 2,000 calorie diet.
Not a significant source of saturated fat, trans fat, cholesterol, dietary fiber, sugars, vitamin A, vitamin C, calcium, iron.

Note: The FDA places restrictions on the use of this template based on available display panel area, ref 21 CFR part 101.9(j)(13).

- **Vertical Simplified:** The Vertical Simplified format can be used in place of the Vertical Standard format when one of the following conditions are met:

  1. The food contains insignificant amounts of 7 or more of the required items not including "Calories from saturated fat".
  2. The food is intended for a child less than 2 years of age and contains insignificant amounts of 6 or more of the required items not including "Calories from saturated fat", "Saturated Fat", and "Cholesterol". * See 21 CFR part 101.9(f).

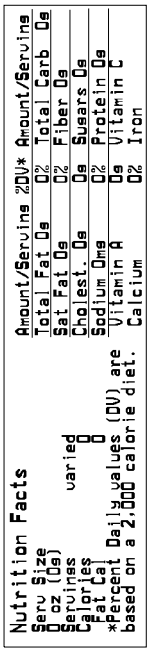
  The operator must determine if the conditions are met. The Vertical Simplified format includes all of the required fields and those voluntary fields that do not have a blank value. The required fields that are indicated by an asterisk in the Nutrition Fields chart will not print in the main Nutrition Facts table when they are present in insignificant amounts, but will print in the footnote. This footnote lists all of the required fields that are present in insignificant amounts following the words "Not a significant source of . . ." .

Nutrition Facts	
Serving Size	1 oz (1g)
Servings Per Container	2
Amount Per Serving	
Calories	0
	%Daily Value*
Total Fat 0.0 g	0%
Trans. Fat 0.0g	
Total Carbohydrate 0g	0%
Protein 0g	
* Percent Daily Values are based on a 2,000 calorie diet.	
Not a significant source of calories from fat, saturated fat, cholesterol, dietary fiber, sugars, vitamin A, vitamin C, calcium, iron.	

Note: The FDA places restrictions on the use of this template based on display panel area, ref. 21 CFR part 101.9(j)(13).

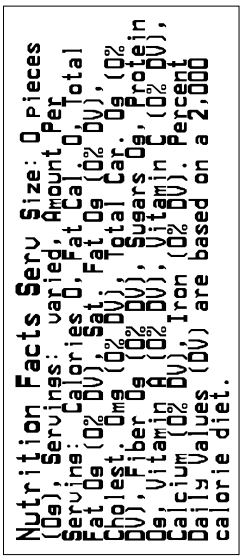
Tabular Simplified - The Tabular template is a *fixed width* and *fixed length* template printed with text parallel to the direction of label movement. The tabular simplified format prints all of the required fields and none of the voluntary fields.

Tabular Simplified Nutrifacts Format



Linear Landscape (Standard) - The Linear Landscape template is a variable width template printed with text parallel to the direction of label movement. The Linear Landscape format includes all of the required fields and the voluntary fields that do not have a blank value.

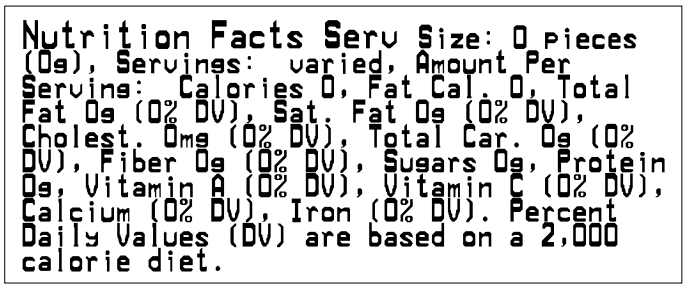
Linear Landscape Nutrifacts Format


Nutrition Facts Serv Size: 0 pieces (0g), Servings: varied, Amount Per Serving: Calories 0, Fat Cal. 0, Total Fat 0g (0% DV), Sat. Fat 0g (0% DV), Cholest. 0mg (0% DV), Total Car. 0g (0% DV), Fiber 0g (0% DV), Sugars 0g, Protein 0g, Vitamin A (0% DV), Vitamin C (0% DV), Calcium (0% DV), Iron (0% DV). Percent Daily Values (DV) are based on a 2,000 calorie diet.

Note: The FDA places restrictions on the use of this template based on available display panel area, ref 21 CFR part 101.9(j)(13).

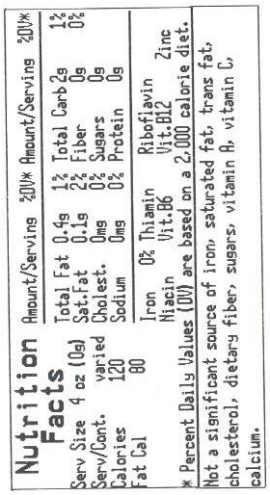
Linear Portrait (Standard) - The Linear Portrait template is a *variable length* template printed with text perpendicular to the direction of label movement. The Linear Portrait format includes all of the required fields and the voluntary fields that do not have a blank value.

Linear Portrait Nutrifacts Format


Nutrition Facts Serv Size: 0 pieces (0g), Servings: varied, Amount Per Serving: Calories 0, Fat Cal. 0, Total Fat 0g (0% DV), Sat. Fat 0g (0% DV), Cholest. 0mg (0% DV), Total Car. 0g (0% DV), Fiber 0g (0% DV), Sugars 0g, Protein 0g, Vitamin A (0% DV), Vitamin C (0% DV), Calcium (0% DV), Iron (0% DV). Percent Daily Values (DV) are based on a 2,000 calorie diet.

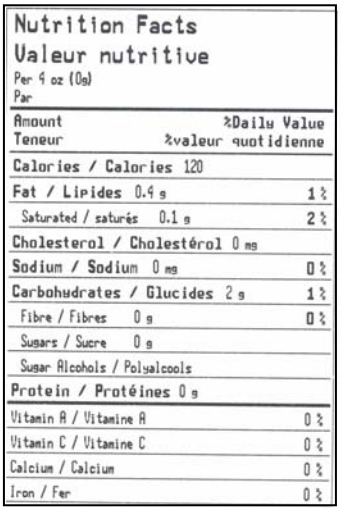
Narrow Horizontal 3-column - The Narrow Horizontal template is printed with text parallel to the direction of label movement. This format includes all of the required fields and the voluntary fields that do not have a blank value.
Note: the label Width must be set to **64.1**.

Narrow Horizontal Nutrifacts Format


Nutrition Facts
Serv Size 4 oz (0g)
Serv/Cont. varied
Calories 120
Fat Cal 80
Amount/Serving %DV*
Total Fat 0.4g 1%
Sat.Fat 0.1g 2%
Cholest. 0mg 0%
Sodium 0mg 0%
Total Carb 2g 1%
Fiber 0g 0%
Sugars 0g
Protein 0g
Iron 0% Thiamin Riboflavin
Niacin Vit.B6 Vit.B12 Zinc
* Percent Daily Values (DV) are based on a 2,000 calorie diet.
Not a significant source of iron, saturated fat, trans fat, cholesterol, dietary fiber, sugars, vitamin A, vitamin C, calcium.

Canadian Nutrifact Format – This Nutrifact template adheres to Canadian regulations and has an optional "Sugar Alcohol" line. **Note**: this format is only available in Canada.

Canadian Nutrifacts Format


Nutrition Facts
Valeur nutritive
Per 4 oz (0g)
Par
Amount
Teneur
%Daily Value
%valeur quotidienne
Calories / Calories 120
Fat / Lipides 0.4 g 1 %
Saturated / saturés 0.1 g 2 %
Cholesterol / Cholestérol 0 mg
Sodium / Sodium 0 mg 0 %
Carbohydrates / Glucides 2 g 1 %
Fibre / Fibres 0 g 0 %
Sugars / Sucre 0 g
Sugar Alcohols / Polyalcools
Protein / Protéines 0 g
Vitamin A / Vitamine A 0 %
Vitamin C / Vitamine C 0 %
Calcium / Calcium 0 %
Iron / Fer 0 %

Select Data

The chart below lists the fields that are required (R) and voluntary (V) along with the insignificant value (when applicable).

Nutrition Field	Type	Insig. Amount
Calories	R	<=5
Calories from fat	R	<=5*
Calories from saturated	V	
Total fat (g)	R	<=0.5
Total fat (%)	R	
Saturated fat (g)	R	<=0.5
Saturated fat (%)	R	
Polyunsaturated fat (g)	V	
Monounsaturated fat(g)	V	
Trans Fatty Acid (g)	R	<=0.5
Trans Fatty Acid (%)	R	
Cholesterol (mg)	R	<=2*
Cholesterol (%)	R	*
Sodium (mg)	R	<=5
Sodium (%)	R	
Potassium (mg)	V	
Potassium (%)	V	
Total carbohydrate (g)	R	<=1
Total carbohydrate (%)	R	
Dietary fiber (g)	R	<=1*
Dietary fiber (%)	R	*
Soluble fiber (g)	V	
Insoluble fiber (g)	V	
Sugar (g)	R	0*
Sugar Alcohol	V	
Other carbohydrates (g)	V	
Protein (g)	R	<=1
Protein (%)	V	
Vitamin A (%)	R	<=2%*
Beta-carotene (%)	V	
Vitamin C (%)	R	<=2%*
Calcium (%)	R	<=2%*
Iron (%)	R	<=2%*
Vitamin D (%)	V	
Vitamin E (%)	V	
Thiamin (%)	V	
Riboflavin (%)	V	
Niacin (%)	V	
Vitamin B6 (%)	V	
Folate (%)	V	
Vitamin B12 (%)	V	
Biotin (%)	V	
Pantothenic acid (%)	V	
Phosphorus (%)	V	
Iodine (%)	V	
Magnesium (%)	V	
Zinc (%)	V	
Copper (%)	V	

* = For the Vertical Simple template, these fields are not printed in the main Nutrition Facts table when they have insignificant values. They are printed in the footnote, following the words "Not a significant source of . . ." with the other fields that contain insignificant amounts. See 21 CFR part 101.9(f).

Nutrition Fact Fields

*Note: The Serving Size and Servings per Container fields are the exception. For the Serving Size units, a screen will be presented to choose OZ, PIECES, TEXT, or CANCEL.

The master will prompt you for all of the *fields (required *and* voluntary) in a Nutrition Fact record. In all cases, it is the responsibility of the operator to enter the correct values, paying special attention to units and increments. The scale will simply print the information that is entered with the unit symbol for the units that were requested without doing a "validity check" of any type.

When entering data through the numeric keyboard, touching BLANK for a required field will set the value to zero, while touching BLANK for a voluntary field will leave the field blank and it will not be printed. In general, the fields followed by a "%" sign refer to the Percent Daily Value for that field based on a 2000 calorie diet. This calculation is *not* checked within the scale.

If at any time you want to exit the editing screens, touch CLEAR (or CANCEL from the alphanumeric keyboard) until the **SAVE CHANGES** prompt appears. At this point, touch YES to save the record (unmodified fields will stay at their default values), or touch NO or CANCEL to exit without saving the record.

If all of the fields have been modified (or blanked), the **SAVE CHANGES** prompt automatically appears. Touch YES to save or touch NO or CANCEL to disregard all of the data entered. Touching CANCEL displays the **SAVE CHANGES** prompt. Touch YES to save or touch NO to disregard any data entered. Either situation will return to the Nutrition Facts Number numeric keyboard.

Touching OZ or PIECES presents a numeric keyboard for the entry of the number of ounces/pieces, followed by a numeric keyboard to enter the serving size in grams. (FDA rules specify the conversion 1 oz. = 28 grams. The scale does not check this calculation.) The scale then automatically calculates the Servings per Container.

Touching TEXT prompts you to enter the serving size (limit is 28 characters or less depending on the template used) followed by the number of servings per container (limit 10 characters).

Edit Nutrition Facts

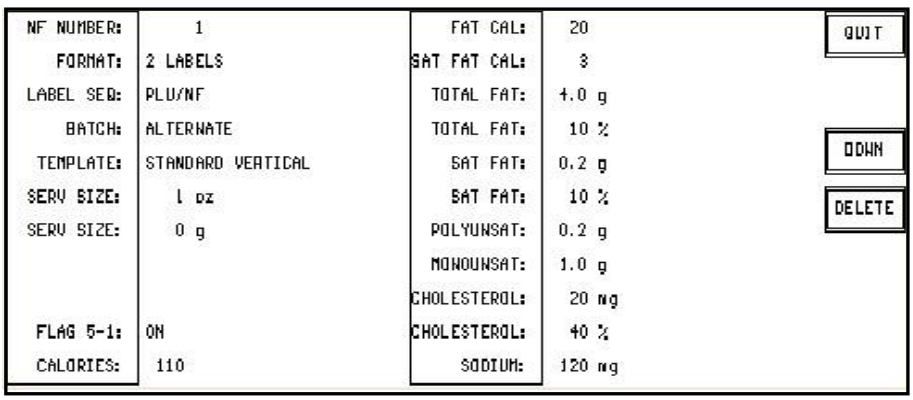
To edit an existing Nutrition Facts Record, enter an existing Nutrition Facts number through the numeric keyboard or choose from the list. The Nutrition Facts Edit Screen will display.

After editing the record, touching QUIT displays a **SAVE CHANGES** prompt. Touch YES to save changes and exit, NO to exit without saving changes, or CANCEL to return to the Nutrition Facts Edit screen.

Touching **DELETE** displays a confirmation screen. Touch **YES** to delete the record and exit, or **NO** to return to the edit screen. The **DELETE** key is only available when editing existing NF records.

Touching **UP** or **DOWN** (when available), moves up or down one page. There are a total of three pages in the **Nutrition Facts Edit** screen.

To edit a field, touch that field and follow the editing instructions.



Nutrition Facts Edit Screen (first screen shown)

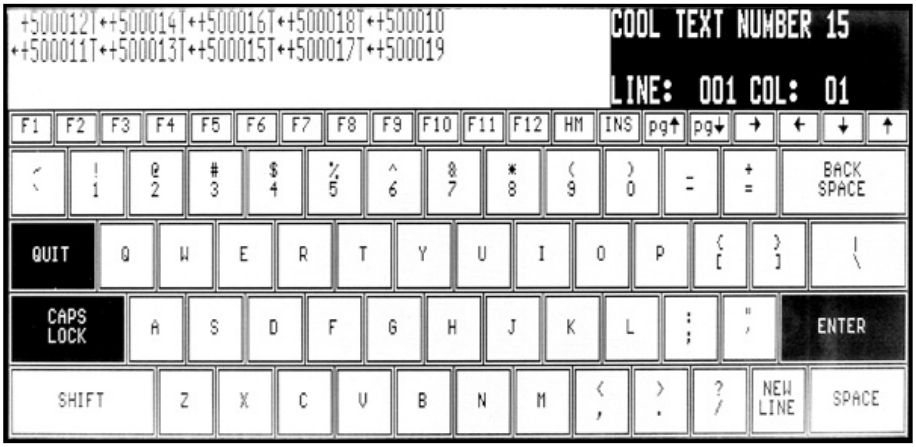
COOL Text

This function can be used to edit or add Cool Text. The text and associated links for Production Country, and Pre Text must first exist in the STEM/REM before the literals are linked together using this function. The COOL Text that is presented at the scale is pulled from the lists that are created in the scale or transmitted from a host. Refer to Chapter 9 for additional information on COOL. The COOL Text must be in the 0-4999999 range. The 500000-999999 range is reserved for the COOL Text literals used to populate the lists.

COOL Text consists of a record (1-499999) that chains the literals (individual texts) together in a list that is used by the scale to populate the COOL Text lists locally in the scale. Different lists can be created for different types of products or locations and assigned to the PLU record. Refer to Chapter 9 for additional information on COOL.

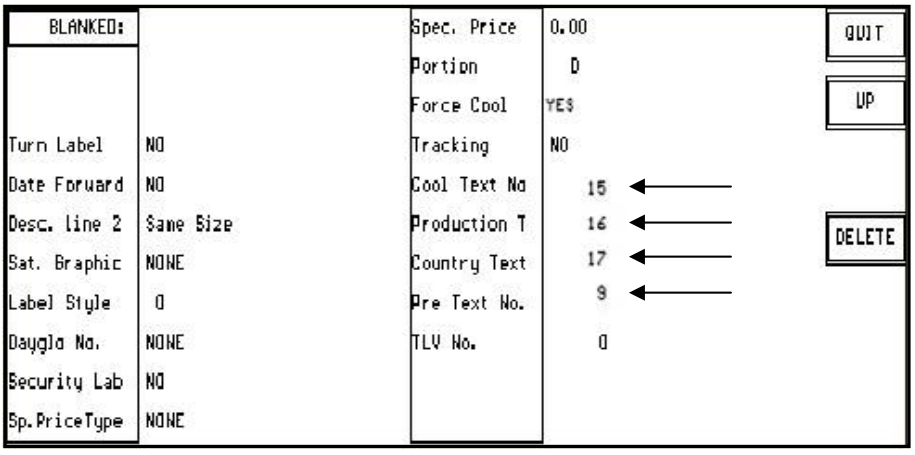
COOL Text is created by chaining Text records from the Production, Country, and Pre text lists (similar to chaining Extra Text records).

Using the keyboard, enter the COOl text number(s) you wish to link.. Enter in the + symbol between COOL text numbers to be linked.



COOL Text Editor

When you are finished, press F10 to save the record, or QUIT to exit without saving. After the COOL Text lists are created, the PLU record must be programmed with the correct numbers. The following image is screen 2 of a PLU record with COOL, Production, Country, and Pre text records assigned to the PLU record.



PLU Editor Screen 2 Showing COOL Text Assigned to the PLU

Production Text

Production text are statements in the list such as "Produced in", "Processed in". Production text is created the same way as COOL Text.

Country Text

Country text is a list of countries and the individual country names (literals). Country text and text lists are created the same as COOL Text as described above.

Pre Text

Pre Text is a word or phrase that prints before the COOL Text on a label. Pre Text is programmed into the PLU record and cannot be overridden by the operator. Pre text and text lists are created the same as COOL Text as described above.

TLV Text

Tag Length Value (TLV) Text is a reference number linking a PLU to its specific TLV information.

Edit - Action Code Record

Action codes currently have three different types defined. Type-1 action codes allow PLU descriptions to be overridden for the PLUs they are linked to. Type-2 action codes allow PLU store addresses to be overridden for the PLUs they are linked to. Type-3 action codes are used for marquee text (marquee not available on Models 8360/8361). Action code types 4-50 can be assigned but have no specific function associated with them.

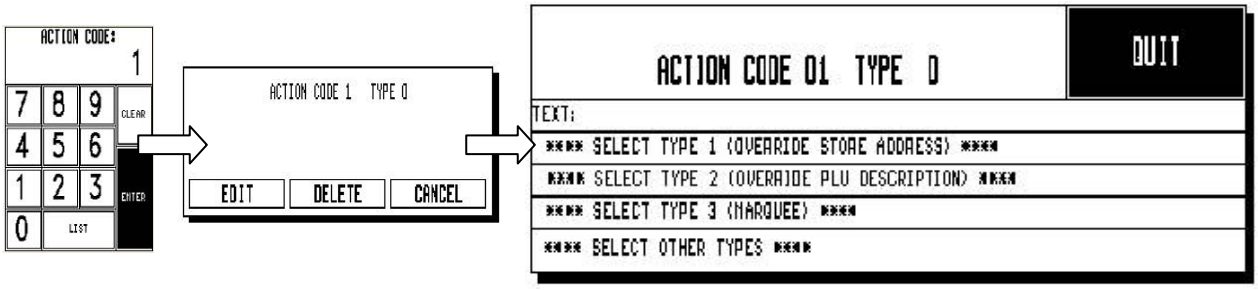
Types 1 and 2 action codes are assigned to PLUs through their identification number (1-50) and can be linked to more than one PLU in any department. If an action code with a type other than 1 or 2 is linked to a PLU, it will be ignored. Type-3 action codes are downloaded to a satellite through the Unit Setup menu.

To edit action codes, touch EDIT followed by ACTION CODE RECORD to display the numeric keyboard for the entry of an Extra Text number.

Edit Action Code

All action code records default to Type-0, which is inactive. To create an active record, or edit an existing record, enter the action code record number or choose from the list (touch the LIST key).

A message will appear with the action code number, type, and three options. Touch CANCEL to return to the Action Code numeric keyboard, DELETE to delete the action code text and change the type back to 0, or EDIT to display the Action Code Selection screen.



Action Code Screens

Assign Type

The Action Code Selection screen permits changing the action code type by touching the appropriate box. The **SELECT OTHER TYPES** box is available to create a new type (4-50) through the numeric keyboard. After a type is assigned, the "title box" will change to reflect the type chosen.

Edit Text

To edit the text, touch one of the **TEXT:** boxes to present the alphanumeric keyboard. Enter the desired text, then touch ENTER. The text input will be two lines of 32 characters (TEXT1: and TEXT2:) for types 1 and 2, or one line of 63 characters (TEXT:) for type 3-50. If you attempt to save an action code that has text without assigning a valid type, you will receive the **UNUSED ACTION CODES (TYPE 0) CAN NOT HAVE TEXT LINKED TO THEM** message with the option to clear the text or change the type.

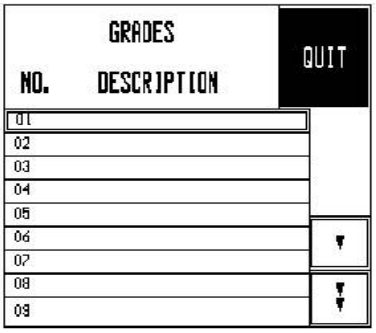
Save Changes

When all changes have been made, touch QUIT from the Action Code Selection screen. A SAVE CHANGES prompt will appear. Touch YES to save the changes and return to the numeric keyboard, NO to return to the numeric keyboard without saving, or CANCEL to return to the Action Code Selection screen.

Edit-Grade Record

Grade records are generally used to print meat grade or for special pricing changes or coupons. They are edited in the Master Editor, and assigned to PLUs through their identification number (1-16). The grade record can be linked to more than one PLU in any department.

To edit a Grade Record, touch EDIT followed by GRADE RECORD to display a list of the grade records.



Grade Record Selection Screen for editing

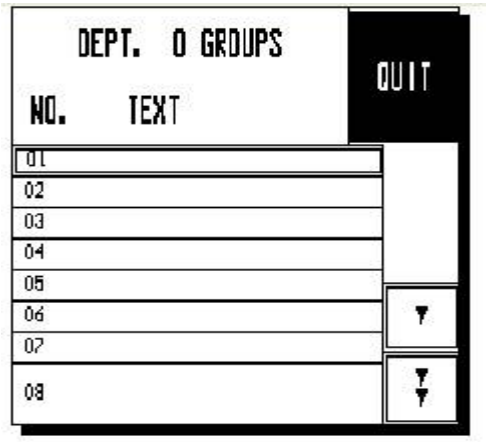
From the list, use the paging keys to find the desired grade line and touch it to select. A message will appear with the grade number and three options. Touch CANCEL to return to the grade record list, DELETE to delete the text for the chosen grade number, or EDIT to edit the grade record text through the alphanumeric keyboard.

When editing text from the alphanumeric keyboard, key in the desired text (one line of up to 23 characters) and touch ENTER. A SAVE CHANGES prompt will appear. Touch YES to save the text and return to the grade record list, NO to return to the grade record list without saving the changes, or CANCEL to editing the Grade.

Edit-Group Record

Group records are used to form smaller groups within a department. Group records are edited in the Master Editor, and assigned to PLUs through their identification number (1-500). Once a group record is assigned to a PLU in a department, that group record can be used for another PLU within that same department, but cannot be assigned to a PLU in any other department.

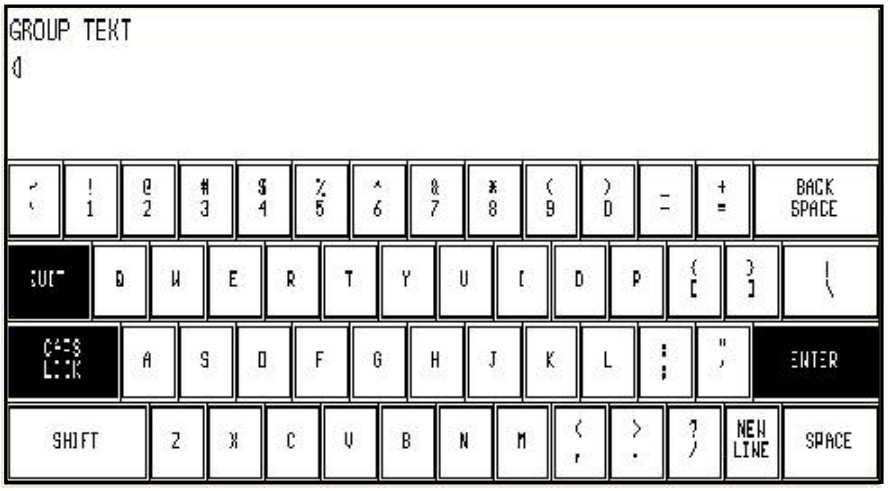
To edit a Group Record, touch EDIT followed by GROUP RECORD to display a list of the group records for the department selected and uncommitted groups.



Group Records Selection List for editing

From the list, use the paging keys to find the desired group line and touch it to select. A message will appear with the group number and three options. Touch CANCEL to return to the group record list, DELETE to delete the text for the chosen group number, or EDIT to edit the group record text through the alphanumeric keyboard.

When editing text from the alphanumeric keyboard, key in the desired text (one line of up to 12 characters) and touch ENTER. A **SAVE CHANGES** prompt will appear. Touch YES to save the text and return to the group record list, NO to return to the group record list without saving the changes, or CANCEL to return to the alphanumeric keyboard.

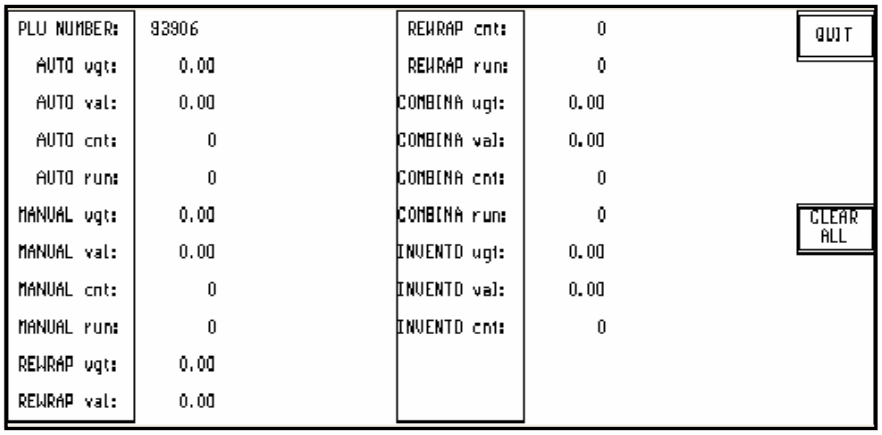


Group Records Keyboard

Edit PLU Accumulators

PLU accumulators keep track of the transactions (including weight, value, count, and run) for the different accumulator types.

To edit the accumulators, touch EDIT followed by **PLU ACCUMULATORS** to display the numeric keyboard for the entry of a PLU number. Enter a PLU number through the numeric keyboard or choose from the list. The PLU Accumulator Edit screen will appear.



PLU Accumulator Edit Screen

Touch CLEAR ALL to clear all of the accumulators for that PLU (after confirmation). To edit one accumulator, touch that accumulator and make the changes through the numeric keyboard. (The PLU number is there for reference only and can not be changed).

When finished making changes, touch QUIT. A **SAVE CHANGES** prompt will appear. Touch YES to save changes and exit, NO to exit without saving, or CANCEL to continue editing.

3 Quick Menu

The Quick Menu is used to make rapid changes to the individual fields of active PLU records without having to go through the complete PLU record.

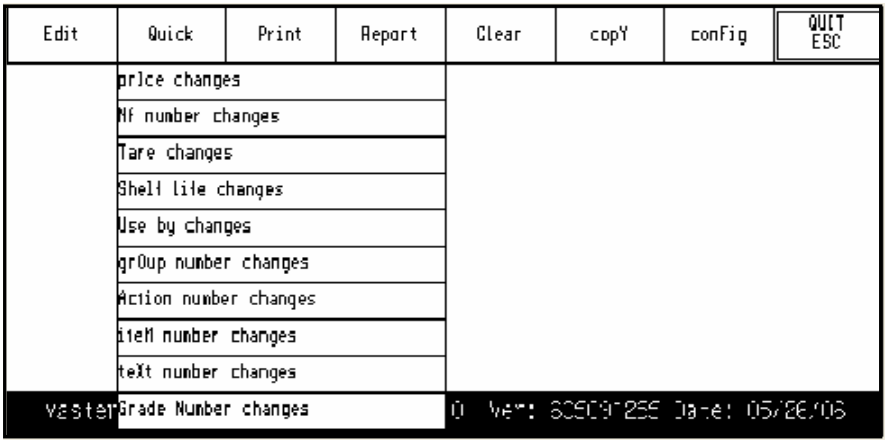
To change a specific field, touch QUICK followed by the field you want to change. Enter the PLU number through the numeric keyboard or choose from the list.

Quick changes will not affect Price Change -only Pending PLUs sent from a host.

If there is no active PLU for the number you entered, the **PLU NOT FOUND** message will be displayed, otherwise a numeric keyboard requesting the new value (with the PLU number for reference) is presented.

From this keyboard, touching EDIT will take you to the PLU Edit Screen where all of the fields can be edited.

For details on the PLU fields, refer to Chapter 2.



Master Editor Screen Quick Menu

The following fields can be modified using QUICK edits:

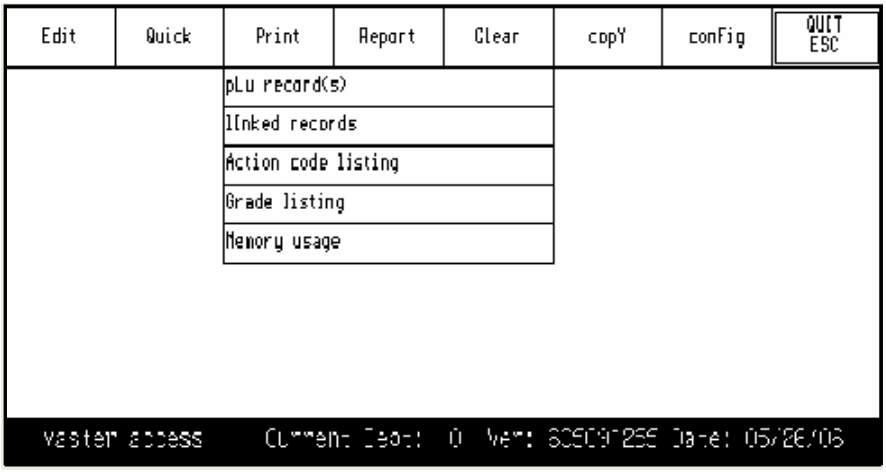
- Price
- Nutrifact Number
- Tare
- Shelf Life
- Use By
- Group
- Action Number
- Item Number
- Extra Text Number
- Grade

METTLER TOLEDO

For your notes

4 Master Editor, Print Menu

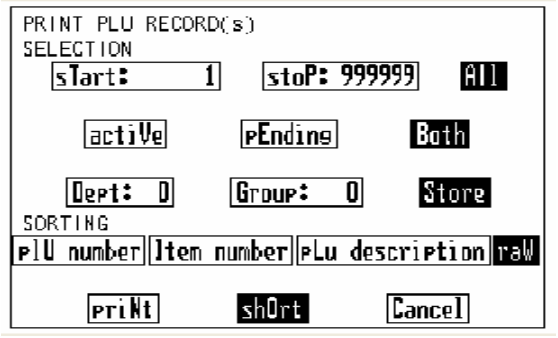
This chapter covers functions found under the Print Menu.



Master Editor Screen Print Menu

Print-PLU Records

The PLU records can be printed on an optional printer with a serial interface. They can not be viewed on the screen.



Print PLU Record Screen

To print PLU records, touch PRINT followed by PLU RECORD(S) to display the Print PLUs Selection Screen. Select the options on the screen, then touch PRINT or CANCEL to return to the Master Editor Menu. The options are described below.

Start/Stop/All

Touch START or STOP to enter the beginning and ending PLU range. Touch ALL to select all of the PLUs.

Active/Pending/Both

Touch ACTIVE to print only the active PLU records, PENDING to print only the pending PLU records, or BOTH to print both the active and pending records. If *pending* or *both* is selected, the regular pending and PCO (Price Change Only) pending PLUs will print.

Dept/Group/Store

Touch DEPT to select a department, GROUP to select a group, or STORE to select all the records in the store. Note: Only the PLUs within the specified range will print.

Sorting

Touch PLU NUMBER to sort the PLU records by PLU number, ITEM NUMBER to sort by item number, PLU DESCRIPTION to sort alphabetically by description, or RAW to print the data without sorting.

Select Short or Long Format

Touch the SHORT / LONG key to toggle between short and long format. Short format includes the PLU and one line of description, while Long format includes all of the PLU information. The short format will print PLU/Item number, price information, effective time/date only on PCO (Price Change Only) pending PLUs.

Examples of both short and long report printouts follow.

Print PLUs Setup:
Range: 1-20, **Type:** Both, **Domain:** Dept. 0, **Sort:** PLU Number, **Format:** Short

METTLER TOLEDO
1900 POLARIS PARKWAY
COLUMBUS, OHIO

Department Number: 00 -MEATS

Date: 01/19/06
Time: 14:51:37

ACTIVE AND PENDING PLU"S SORTED BY PLU NUMBER

PLU #	DEPT.	ITEM #	DESCRIPTION
1	00	0000001436	BEEF ROUND
2	00	0000001439	BEEF ROUND STEAK
2	00	0000001439	BEEF ROUND STEAK
2	00	0000001439	BEEF ROUND STEAK
3	00	0000001443	BEEF ROUND
4	00	0000001801	BEEF ROUND CROSS
5	00	0000001464	BEEF ROUND
6	00	0000001475	BEEF ROUND TOP ROUND ROAST BNLS
7	00	0000001487	BEEF ROUND BOTTOM ROUND ROAST
8	00	0000001500	BEEF ROUND EYE OF ROUND ROAST
9	00	0000001485	BEEF RUMP ROAST BONE IN
10	00	0000001460	BEEF ROUND HEEL OF ROUND ROAST
11	00	0000001206	BEEF RIB EYE ROAST BONELESS
12	00	0000001210	BEEF RIB EYE STEAK THIN CUT
13	00	0000001234	BEEF SHORT RIBS BONELESS

PLU Short Record

Print PLUs Setup:
Range: 1-20, Type: Both, Domain: Dept. 0, Sort: PLU Number, Format: Long

METTLER TOLEDO
1900 POLARIS PARKWAY
COLUMBUS, OHIO

Department Number: 00 - DEPT NAME

Date: 07/26/06
Time: 02:44:15 PM
ACTIVE AND PENDING PLU'S SORTED BY PLU NUMBER

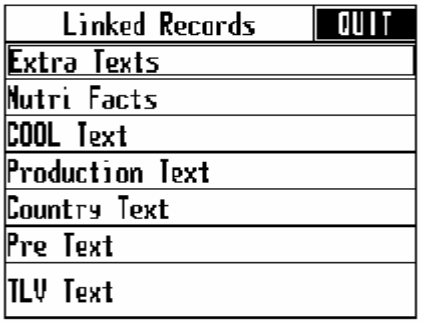
PLU #	DEPT	ITEM #	DESCRIPTION	GROUP	GRADE	PRICE	TYPE	MOD	TARE1	TARE2	SHELF	EAT-BY
	ACTION	TEXT	NUTRIFACTS	GRAPHICS								
1	00	0000000001	DESCRIPTION 1	1	1	1.99	0	0	0.00	0.00	2	3
	0	1	15	100								
		DESCRIPTION 2										
2	00	0000000002	DESCRIPTION 1	0	1	3.99	1	1	0.00	0.00	2	3
	0	1	14	99								
		DESCRIPTION 2										
3	00	0000000003	DESCRIPTION 1	0	1	5.99	3	6	12.00	0.00	2	3
	0	1	14	3								
		DESCRIPTION 2										
4	00	0000000004	BASS	0	0	0.00	0	0	0.00	0.00	2	3
	0	0	0 0									

PLU Long Record

Print-Linked Records

There are seven (7) types of Linked Records that can be printed:

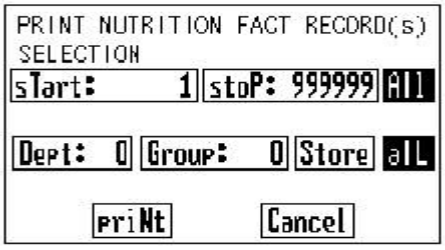
- Extra Text
- Nutri Facts
- COOL Text
- Production Text
- Country Text
- Pre Text
- TLV Text



Print Linked Records Selection Screen

The records are printed on an external printer, and can not be viewed on the screen.

To print a Linked record, select the TYPE of linked record you wish to print (example Nutri Facts). Select the various options for the specific Linked Record, then touch PRINT to print or CANCEL to return to the Master Editor Menu.



Print Nutrition Facts Selection Screen

Start/Stop/All

Touch START or STOP to enter the beginning or ending number or touch ALL to choose all of the Nutrition Fact records within the specified domain.

Dept/Group/Store/All

Touch DEPT to select Nutrition Facts records from a specified department , GROUP to select the Nutrition Facts records from a specified group, or STORE or ALL to select all the Nutrition Facts records for the store. Note: Only the Nutrition Facts records within the specified range will print.

Print Nutrition Facts Setup:
Range: 1-2, **Domain:** Dept. 0
Department Number: 00 - MEATS

Date: 01/19/06
Time: 14:54:22

NUTRITION FACTS
NF NUMBER
1 Nutrition Facts Record
NUTRITIONAL FACTS PER SERVING
SERVING SIZE:
SERVING SIZE..... 5oz
SERVING SIZE..... 140g
SERVINGS PER CONTAINER...COMPUTED
CALORIES.....50
CALORIES FROM FAT.....25
CALORIES FROM SAT FAT.....25
TOTAL FAT.....15.0g
TOTAL FAT..... 23%
SATURATED FAT.....10.0g
SATURATED FAT..... 50%
TRANS FAT.....5.0g
TRANS FAT..... 25%
POLYUNSATURATED FAT.....
MONOUNSATURATED FAT.....
CHOLESTEROL..... 45mg
CHOLESTEROL..... 50%
SODIUM..... 30mg
SODIUM..... 1%
POTASSIUM.....
TOTAL CARBOHYDRATES..... 17g

NUMBER OF LABELS: 2
ORDERING: PLU/NF
BATCH MODE: ALTERNATE
TEMPLATE: STANDARD VERTICAL

TOTAL CARBOHYDRATES..... 6%
DIETARY FIBER..... 9g
DIETARY FIBER..... 36%
SOLUBLE FIBER.....
INSOLUBLE FIBER.....
SUGAR..... 8g
SUGAR ALCOHOL.....
OTHER CARBOHYDRATES.....
PROTEIN..... 3g
PROTEIN..... 6%
VITAMIN A..... 10%
BETA CAROTENE.....
VITAMIN C..... 2%
CALCIUM..... 50%
IRON..... 10%

VITAMIN D..... 25%
VITAMIN E.....
THIAMIN.....
RIBOFLAVIN.....
NIACIN.....
VITAMIN B6.....
FOLATE.....
VITAMIN B12..... 10%
BIOTIN.....
PANTOTHENTIC ACID.....
PHOSPHORUS.....
IODINE.....
MAGNESIUM.....
ZINC.....
COPPER.....

2 Nutrition Facts Record
NUTRITIONAL FACTS PER SERVING
SERVING SIZE:
SERVING SIZE..... 6oz
SERVING SIZE..... 168g
SERVINGS PER CONTAINER...COMPUTED
CALORIES.....20
CALORIES FROM FAT..... 8
CALORIES FROM SAT FAT..... 5
TOTAL FAT.....10.0g
TOTAL FAT..... 15%
SATURATED FAT..... 0.0g
SATURATED FAT.....
POLYUNSATURATED FAT.....
MONOUNSATURATED FAT.....
CHOLESTEROL..... 0mg
CHOLESTEROL..... 0%
SODIUM..... 0mg
SODIUM..... 0%
POTASSIUM.....
POTASSIUM.....
TOTAL CARBOHYDRATES..... 14g

NUMBER OF LABELS: 2
ORDERING: PLU/NF
BATCH MODE: ALTERNATE
TEMPLATE: SIMPLIFIED VERTICAL

TOTAL CARBOHYDRATES..... 5%
DIETARY FIBER..... 0g
DIETARY FIBER..... 0%
SOLUBLE FIBER.....
INSOLUBLE FIBER.....
SUGAR..... 0g
SUGAR ALCOHOL.....
OTHER CARBOHYDRATES.....
PROTEIN..... 6g
PROTEIN..... 12%
VITAMIN A..... 1%
BETA CAROTENE..... 3%
VITAMIN C..... 2%
CALCIUM..... 10%
IRON..... 0%

VITAMIN D..... 10%
VITAMIN E.....
THIAMIN.....
RIBOFLAVIN.....
NIACIN.....
VITAMIN B6.....
FOLATE.....
VITAMIN B12..... 15%
BIOTIN.....
PANTOTHENTIC ACID.....
PHOSPHORUS.....
IODINE.....
MAGNESIUM.....
ZINC.....
COPPER.....

Print-Action Code Listing

The Action Code Listing is printed on an external printer. To print the Action Code Listing, touch PRINT followed by ACTION CODE LISTING. A **Please Wait Processing . . .** message will display followed by the first page of the Action Code List with options.

Touch RETURN to return to the Master Editor Menu, PAGE UP and PAGE DOWN to look at different pages of the list, or PRINT to print the list. All 50 action codes will be printed.

The first part of a sample printout follows.

```
METTLER TOLEDO
1900 POLARIS PARKWAY
COLUMBUS, OHIO

Date:  01/19/06
Time:  15:09:29

ACTION CODES
ACT CODE TYPE              ----------TEXT----------
     00 Unused Code
     01 Marquee Text       Thank you for shopping with us.
     02 Marquee Text       Special today on all DELI items - 10% off!!
     03 Override Addr      STORE LOCATION #33 - Columbus, Ohio
     04 Override PLU's     Desc Ground Chuck   - Family Pack - Special
     05 Unused Code
     06 Marquee Text       Today is Wednesday, January 19th.  Enjoy your shopping!
     07 Unused Code
     08 Unused Code
     09 Unused Code
     10 Unused Code
     11 Unused Code
     12 Unused Code
     13 Unused Code
     14 Unused Code
     15 Unused Code
     16 Unused Code
     17 Unused Code
     18 Unused Code
     19 Unused Code
     20 Unused Code
```

Print-Grade Listing

To print the Grade Listing, touch PRINT followed by GRADE LISTING. A **Please Wait Processing . .** message will display followed by the first page of the Grade List with options.

Touch RETURN to return to the Master Editor Menu, PAGE UP and PAGE DOWN to look at different pages of the list, or PRINT to print the list.

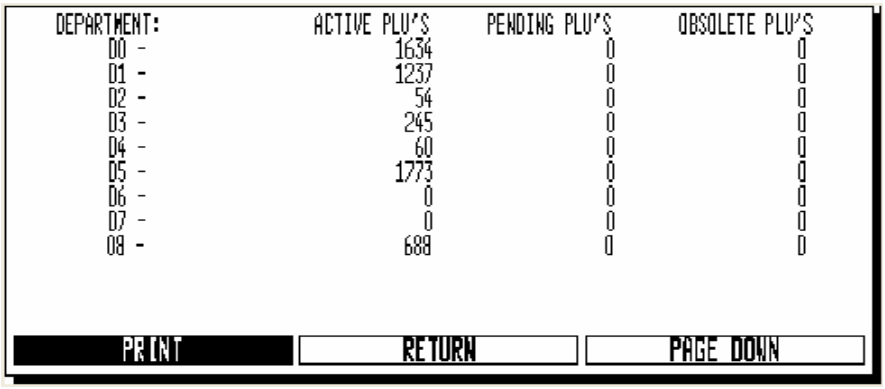
Print-Memory Usage

The Memory Usage is printed on an external printer.

To print the Memory Usage, touch PRINT followed by MEMORY USAGE. A **Please Wait Processing . .** message will display followed by the first page of the Memory Usage with options.

Touch RETURN to return to the Master Editor Menu, PAGE UP and PAGE DOWN to look at different pages of the printout, or PRINT to print.

The count of pending PLUs will include regular and Price Change Only pending PLUs.

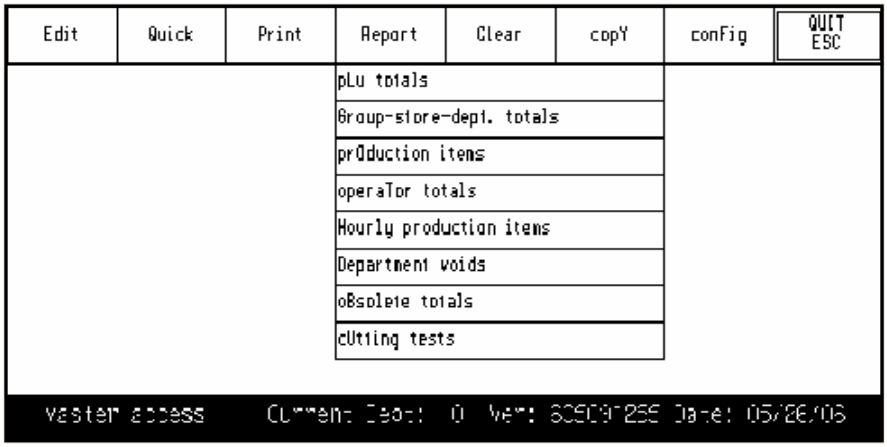


METTLER TOLEDO

For your notes

5 Master Editor, Reports Menu

This chapter covers functions under the Report Menu.

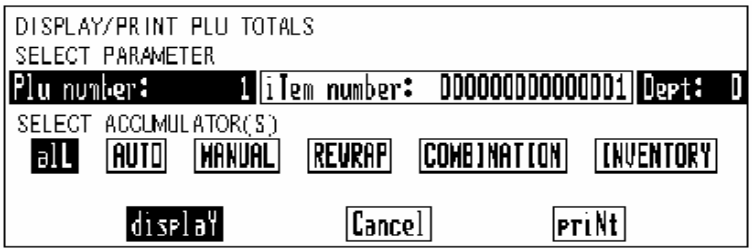


Master Editor Screen Report Menu

PLU Totals Reports

The PLU Totals reports can be viewed on the screen or printed. These reports contain the weight, value, count, and number of runs for the selected accumulators that correspond to the chosen PLU Record. To print PLU Totals reports, touch REPORT followed by PLU TOTALS to display the PLU Totals Report Selection screen.

Select the options, then touch CANCEL to return to the Master Editor Menu, PRINT to print the report, or DISPLAY to view PLU reports on the screen. From the displayed screen, touch RETURN to return to the Master Editor Menu or PRINT to print the report. A sample (displayed) report is shown following this section.



PLU Totals Report Selection Screen

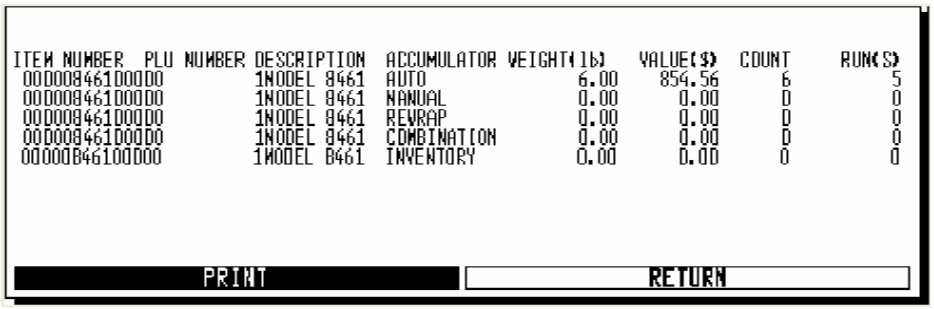
0000000100	100	BEEF LOI	57.87	2.83	248.02	2.79	80	29
0000000101	101	BEEF LOI	14.46	0.71	105.39	5.31	13	3
0000000102	102	BEEF LOI	6.66	0.33	24.59	0.77	6	3
0000000103	103	BEEF LOI	2.11	0.05	5.43	0.12	2	1
0000000104	104	BEEF LOI	1.26	0.06	6.93	0.22	3	1
0000000105	105	BEEF LOI	0.00	0.00	0.00	0.00	0	0
0000000106	106	BEEF LOI	0.00	0.00	0.00	0.00	0	0
0000000107	107	BEEF LOI	0.00	0.00	0.00	0.00	0	0
0000000108	108	BEEF LOI	4.40	0.22	30.76	0.97	4	2

Select Parameter

Select either the PLU NUMBER and DEPT (department) or the ITEM NUMBER to determine which record's totals are to be printed by touching the appropriate key and entering the value through the numeric keyboard.

Select Accumulators

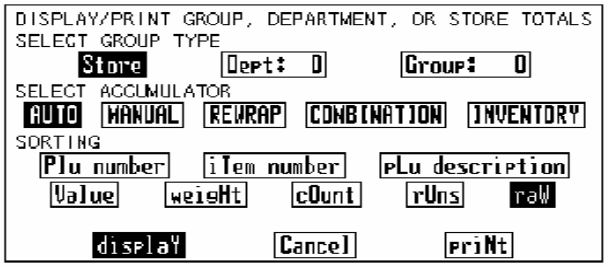
Touch one of the accumulator names to choose which accumulators to print or touch **ALL** to select all of the accumulators for the chosen PLU record.



PLU Totals Report (display)

Group-Store-Dept Totals Reports

The Group-Store-Dept Totals reports can be viewed on the screen or printed on an 8845 or compatible line printer. These reports will print the total weight, %weight total, value, %value total, count, and number of runs for the items in a Group, Store, or Department for the selected accumulator. To print Group-Store-Dept Totals reports, touch REPORT followed by GROUP-STORE-DEPT. TOTALS to display the Group-Store-Dept. Totals Report Selection Screen. After selecting the desired options, touch CANCEL to return to the Master Editor Menu, PRINT to print the report, or DISPLAY to view the report on the screen. From the displayed screen, touch PAGE UP or PAGE DOWN to view different pages of the report (when available), RETURN to return to the Master Editor Menu, or PRINT to print the report. A sample (displayed) report is shown following this section.



Group-Department-Store Report Selection Screen

Select Group Type

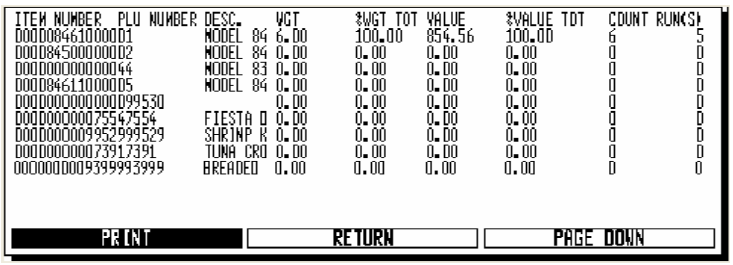
Touch STORE to retrieve all the records from a store, DEPT. to specify a department, or GROUP to specify a group. Only the records within the selected group and accumulator will display.

Select Accumulators

Touch one of the accumulator names to choose which accumulators' records will be displayed. Only the records within the selected group and accumulator will display.

Select Sorting Order

Touch the desired sorting order for the report. (Touching RAW will leave the data in the order it is stored in the database.)



Group-Store-Dept Totals Report (display)

Operator Totals Report

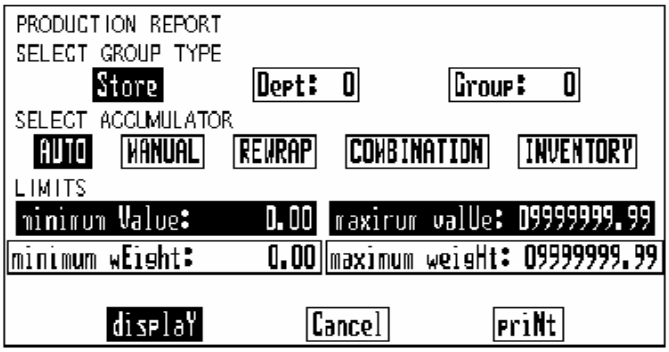
Operator totals will record up to 30 operators per department, which are defined by a 4-digit number and a name. The definition of operator names and numbers, accumulation, and reporting takes place in the master. The satellite must have operator totals enabled in order to send the data to the master. The Operator Totals Report will list each operator and the totals accumulated for each operator.

Production Items Report

The Production Items reports can be viewed on the screen or printed on an external printer. These reports will print the total weight, value, count, and number of runs for the items in a Group, Department, or Store for the selected accumulator within the defined value and weight limits in ascending order by weight.

To print Production Items reports, touch REPORT followed by PRODUCTION ITEMS to display the Production Items Report Selection Screen.

Select the various options, then touch CANCEL to return to the Master Editor Menu, PRINT to print the report, or DISPLAY to view the report on the screen. From the displayed screen, touch PAGE UP or PAGE DOWN to view different pages of the report (when available), RETURN to return to the Master Editor Menu, or PRINT to print the report. A sample (displayed) report is shown following.



Production Items Report Selection Screen

Select Group Type

Touch STORE to retrieve all the records from a store, DEPT to specify a department, or GROUP to specify a group. Only the records within the selected group and accumulator with values and weight within the limits will display.

Select Accumulators

Touch one of the accumulator names to choose which accumulators' records will be displayed. Only the records within the selected group and accumulator with values and weight within the limits will display.

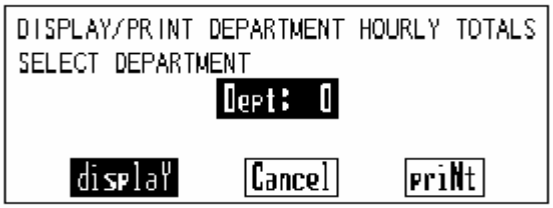
Select Limits

Specify the Value and/or Weight limits by touching the appropriate key and entering the value through the numeric keyboard. Both sets of limits will be applied to the data. The scale will not allow you to enter a maximum value lower than the current minimum or a minimum value higher than the current maximum. Only the records within the selected group and accumulator with values and weight within the limits will display.

Hourly Production Items Report

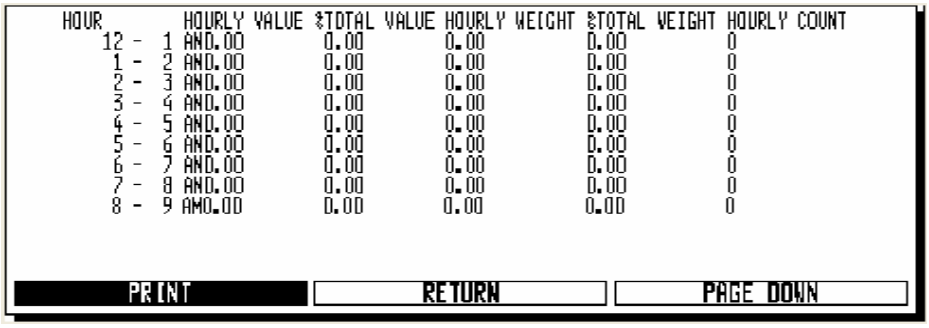
The Hourly Production Items report can be viewed on the screen or printed on an external printer. The report prints the hourly production for all the hours of the day (including the hourly value, %total hourly, hourly weight, %total weight, value, %value total, and hourly count) for the specified department.

To print Hourly Production Items report, touch REPORT followed by HOURLY PRODUCTION ITEMS to display the Hourly Production Items Report Selection Screen.



Group-Store-Dept Totals Report Selection Screen

Enter the department number by touching the DEPT key and entering the value, then touch CANCEL to return to the Master Editor Menu, PRINT to print the report, or DISPLAY to view the report on the screen. From the displayed screen, touch PAGE UP or PAGE DOWN to view different pages of the report, RETURN to return to the Master Editor Menu, or PRINT to print the report. A sample (displayed) report is shown.



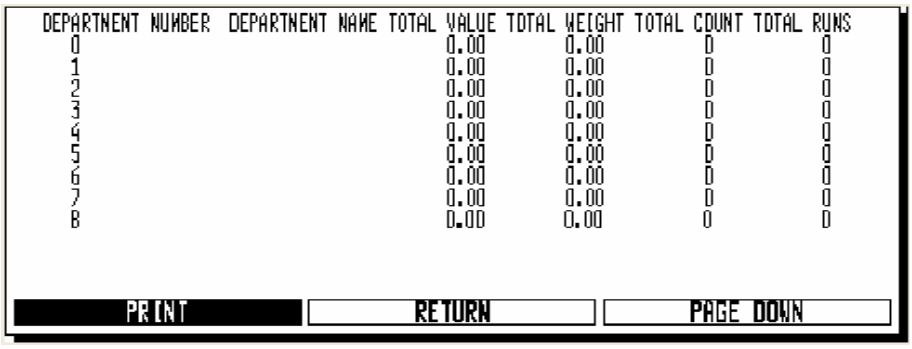
HOUR	HOURLY VALUE	%TOTAL VALUE	HOURLY WEIGHT	%TOTAL WEIGHT	HOURLY COUNT
12 - 1	AND.00	0.00	0.00	0.00	0
1 - 2	AND.00	0.00	0.00	0.00	0
2 - 3	AND.00	0.00	0.00	0.00	0
3 - 4	AND.00	0.00	0.00	0.00	0
4 - 5	AND.00	0.00	0.00	0.00	0
5 - 6	AND.00	0.00	0.00	0.00	0
6 - 7	AND.00	0.00	0.00	0.00	0
7 - 8	AND.00	0.00	0.00	0.00	0
8 - 9	AMO.00	0.00	0.00	0.00	0

Hourly Production Items Report (display)

Department Voids Report

The Department Voids Report can be viewed on the screen or printed on an external printer. The report prints the total value, total weight, total count and total runs for the voided items by department.

To print the Department Voids report, touch REPORT followed by DEPARTMENT VOIDS to display the Department Voids report (see below). From the displayed screen, touch PAGE UP or PAGE DOWN to view different pages of the report, RETURN to return to the Master Editor Menu, or PRINT to print the report.



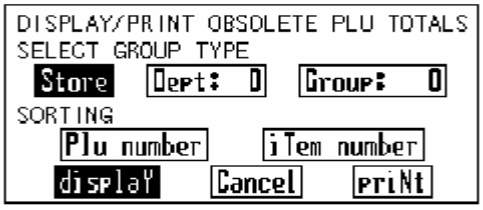
DEPARTMENT NUMBER	DEPARTMENT NAME	TOTAL VALUE	TOTAL WEIGHT	TOTAL COUNT	TOTAL RUNS
0		0.00	0.00	0	0
1		0.00	0.00	0	0
2		0.00	0.00	0	0
3		0.00	0.00	0	0
4		0.00	0.00	0	0
5		0.00	0.00	0	0
6		0.00	0.00	0	0
7		0.00	0.00	0	0
8		0.00	0.00	0	0

Department Voids Report (display)

Obsolete Totals Report

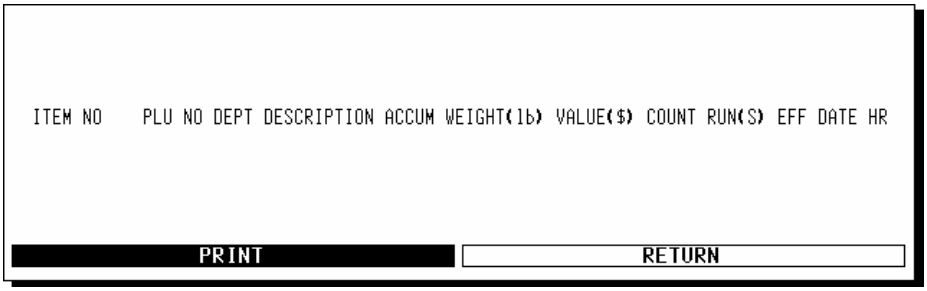
The Obsolete Totals report can be viewed on the screen or printed on an external printer. This report will print the Item Number, PLU Number, Department, Description, Accum Weight, Value in $, Count Run(s) and effective date hour for a selected store department or group sorted by PLU number or item number.

To print the Obsolete Totals, touch REPORT followed by OBSOLETE TOTALS to display the Obsolete Totals Report Selection Screen.



Obsolete Totals Report Selection Screen

Select the various options, then touch CANCEL to return to the Master Editor Menu, PRINT to print the report, or DISPLAY to view the report on the screen. From the displayed screen, touch PAGE UP or PAGE DOWN to view different pages of the report, RETURN to return to the Master Editor Menu, or PRINT to print the report.



Obsolete Totals Report (displayed)

Select Group Type

Touch STORE to retrieve all the obsolete totals records from a store, DEPT to specify a department, or GROUP to specify a group through the numeric keyboard. Only the records within the selected group will display.

Select Sorting Order

Touch the desired sorting order (by PLU or item number) for the report.

Cutting Test Report

The Cutting Test Report can be printed on the line printer using data collected from the 8305, 8360, and 8361 satellites. Refer to the specific satellite operator manual for instructions on running cutting tests.

The cutting test report does not display on the screen but goes only to an 8845 or compatible line printer. To print, touch REPORT, then CUTTING TESTS. A numeric keyboard prompting for a satellite number will be displayed. Upon entry of a valid satellite number, the report will be sent to the printer.

06-14-06 METTLER TOLEDO
09:37:00 CUTTING TEST REPORT
SCALE ADDRESS: 20

SCALE I.D. #: 06
PRODUCT NUMBER: 000140
PRODUCT WEIGHT: 101.50

TEST START DATE: 06-17-06
TEST START TIME: 08:31
TEST END DATE: 06-17-06
TEST END TIME: 10:31

DEPT NO	PLU NO	ITEM NO	DESCRIPTION	WEIGHT	% OF TOTAL	UNIT PRICE	TOTAL RETAIL DOLLAR
4	0101	001175	BEEF RIB LARGE END ROAST	41.85	41.23	3.59	150.23
4	0102	001194	BEEF RIB SMALL END STEAK	33.88	33.38	3.89	131.78
4	0103	001717	BEEF CUBE STEAK	3.97	3.91	2.89	11.47
4	2997	002997	TRIMMINGS	2.00	1.97	1.29	2.58
			SALEABLE YIELD:	81.70	80.49		
4	2998	002998	BONE	4.00	3.94	0.00	0.00
4	2999	002999	FAT	8.00	7.88	0.00	0.00
			CUT LOSS/SHRINK:	7.80	7.68		
			TOTAL:	101.50			296.06

COST:

TOTAL INVOICED COST $: 193.50
INVOICED COST PER LB: 1.91
SALEABLE YIELD COST/LB: 2.37

GROSS MARGIN:

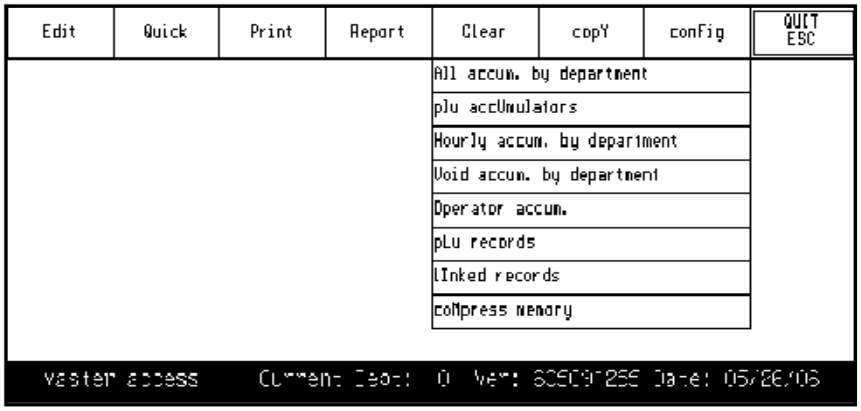
TOTAL $: 102.56
PROFIT PER LB: 1.01
TOTAL G.GM %: 34.64

METTLER TOLEDO

For your notes

6 Master Editor, Clear Menu

This chapter covers functions found under the Clear Menu.



Clear Menu

Clear-All Accumulators By Department

To clear all of the accumulators in the current department, touch CLEAR followed by ALL ACCUM. BY DEPARTMENT to display a confirmation screen. From the confirmation screen, touch YES to clear the accumulators and return to the Master Editor Menu or NO to return to the Master Editor Menu without clearing.

Clear-PLU Accumulators

To clear the PLU accumulators in the current department or by group, touch CLEAR followed by PLU ACCUMULATORS to display a confirmation screen. Select either BY DEPARTMENT or BY GROUP. From the confirmation screen, touch YES to clear the accumulators and return to the Master Editor Menu or NO to return to the Master Editor Menu without clearing.

Clear-Hourly Accumulators By Department

To clear the hourly accumulators in the current department, touch CLEAR followed by HOURLY ACCUM. BY DEPARTMENT to display a confirmation screen. From the confirmation screen, touch YES to clear the hourly accumulators and return to the Master Editor Menu or NO to return to the Master Editor Menu without clearing.

Clear-Void Accumulators By Department

To clear the void accumulators in the current department, touch CLEAR followed by VOID ACCUM. BY DEPARTMENT to display a confirmation screen. From the confirmation screen, touch YES to clear the void accumulators and return to the Master Editor Menu or NO to return to the Master Editor Menu without clearing.

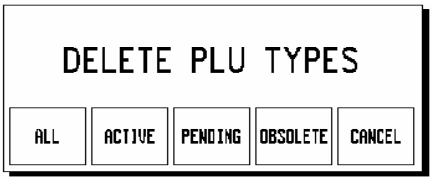
Clear-Operator Accumulators

To clear operator accumulators for a specified operator within the current department, touch Clear followed by OPERATOR ACCUM.. Enter the desired operator number through the displayed numeric keyboard. A PLEASE WAIT message will appear, followed by a confirmation screen. From the confirmation screen, touch YES to clear the accumulators or NO to return to the numeric keyboard without clearing. Note: If the operator number does not exist, you will receive a OPERATOR NUMBER NOT FOUND message. Touch the screen and select a new operator.

Clear-PLU Records

To delete all PLU records for the current department or a specified group, touch CLEAR followed by PLU RECORDS. A **DELETE PLU TYPES** message will appear with five options.

Touch CANCEL to return to the Master Editor Menu, ALL to delete all PLU records (after confirmation), or ACTIVE to delete all active PLU records (after confirmation), PENDING to delete all regular pending PLU and PCO pending records, or OBSOLETE to delete all obsolete PLU records. After selecting a PLU type, select to delete BY DEPARTMENT or BY GROUP, then and enter the department or group number. From the confirmation screen, touch YES to delete the PLU records and return to the **DELETE PLU TYPES** message or NO to return to the message without deleting.



Confirmation Screen for Deleting PLU Records

Clear Linked Records

You can clear any of the linked records from this menu. Linked records include:

- Extra Texts
- Nutri Facts
- COOL Text
- Production Text
- Country Text
- Pre Text
- Graphics

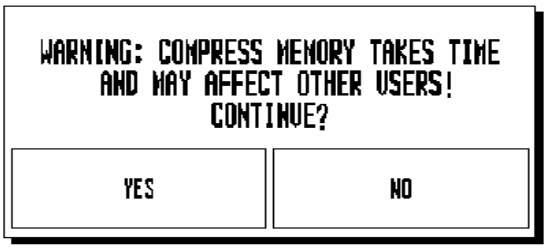
For example, to delete all of the Extra Text records, touch CLEAR, select Linked Records, followed by Extra Texts to display a confirmation screen. From the confirmation screen, touch YES to delete all of the Extra Text records and return to the Master Editor Menu or NO to return to the Master Editor Menu without deleting.

Compress Memory

Note: The master will automatically compress memory every day at 1:45 AM.

To Compress the Memory, touch CLEAR followed by COMPRESS MEMORY. This will display a warning confirmation message.

Touch YES to Compress the Memory or NO to exit to the Master Editor Menu.



Compress Memory Confirmation Screen

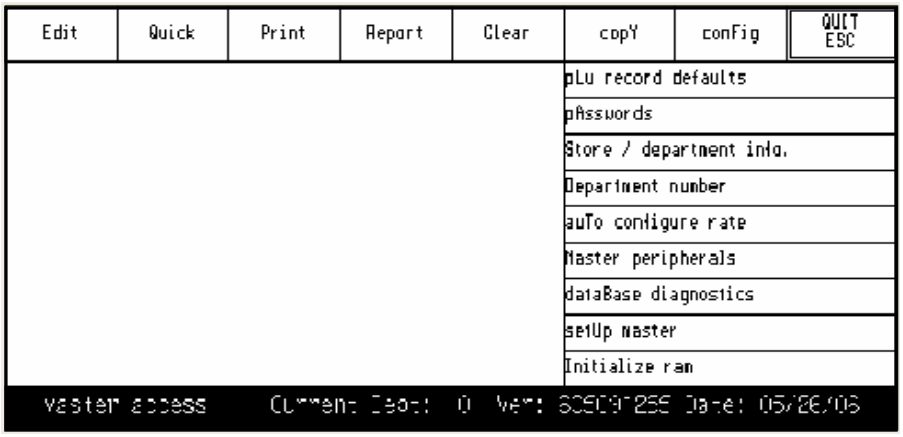
METTLER TOLEDO

For your notes

7 Master Editor, Configuration Menu

ConFig Menu

To configure the master, first touch **conFig** to display the drop down menu.



Configure Master

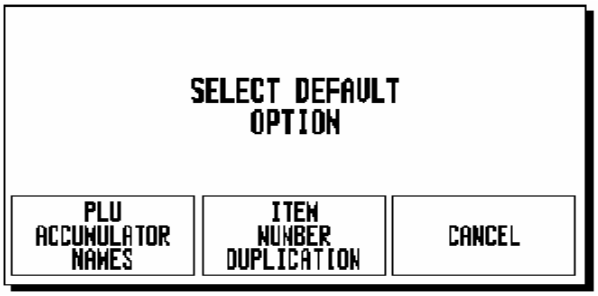
The configuration options under the CONFIG key are as follows and explained in detail in the following sections:

PLU Record Defaults	Configure Accumulator Names and enable/disable duplicate Item Numbers.
Passwords	Set the Master and Department passwords. To clear a password, enter a zero.
Store/Department Info	Configure the Store Name and Address (used on reports), Department Name and Address (used on labels), Department UPC, and Operator Name and Number.
Department Number	Used to select the Current Department (shown at the bottom of the screen) for programming and configuration in the Master Editor.
Auto Configure Rate	Auto Configure Rate is the automatic transmission of satellite addresses (along with a request for connection command) to addresses not yet connected to the network. This eliminates the need to enter all of the Unit ID's manually. This value (1 to 5) is the number of seconds between network auto-configure sequences. The default is 5.
Master Peripherals	Configure the master report printer and host serial ports
Database Diagnostics	Used for factory testing only.
Setup Master	Select the weight increment, currency symbol, date format, date separator, time format, barcode style, obsolete PLUs, and Master Network Setup.
Initialize Ram	***WARNING! This selection clears all records from the database.*** This selection must be used to set up new masters before programming records or downloading files. This selection can also be used to clear the RAM if a corruption is

suspected in the database. If attempting to salvage records due to a corruption, first use Intelli-Net or Databack to backup any usable records, then reload the database after initializing.

PLU Record Defaults

Touch CONFIG followed by PLU RECORD DEFAULTS to present a **SELECT DEFAULT OPTION** message with three options. Touch PLU ACCUMULATOR NAMES to edit the accumulator names, ITEM NUMBER DUPLICATION to set the item number default, or CANCEL to return to the Master Editor Menu.



Configure PLU Record Defaults Screen

PLU Accumulator Names

When this option is chosen, a screen is displayed with a list of the five default accumulator names to be used on reports. Touch the accumulator you wish to edit, and make changes to the accumulator name (up to 15 characters). Touch QUIT when you are finished editing to return to the Master Editor Menu.

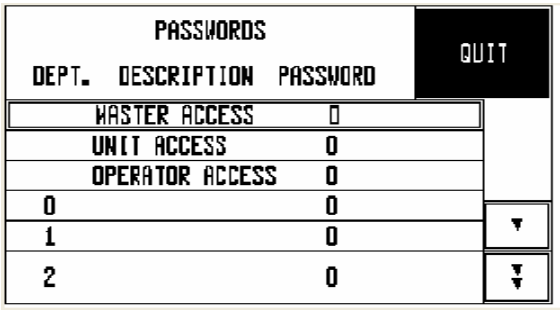
Item Number Duplication

When this option is chosen, an **ALLOW ITEM NO. DUPLICATION** message is presented with three options. Touch YES to allow item number duplication, NO to require unique item numbers, or CANCEL to return to the Master Editor Menu without making a change. Note: If the Satellite Unit utilizes the "Call By Item Number" option for PLUs, the Item Numbers must be unique.

Passwords

To change Master and Department passwords, touch CONFIG followed by PASSWORDS to display a list of passwords. (The Master Password will be first followed by all of the department passwords.)

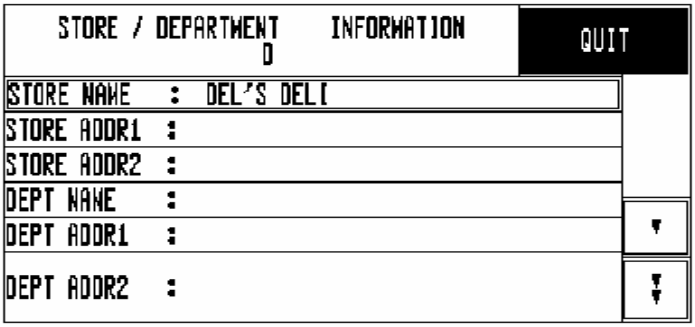
Locate the password you wish to change and touch that line. Enter the new password (up to 4 digits) through the numeric keyboard. When finished editing passwords, touch QUIT to save the changes and return to the Master Editor Menu. Note: If the password is '0', then access to the Master Editor for that level can be gained by touching ENTER at the "Enter Password numeric keyboard" without entering a '0'.



Configure Password Screen

Store/Department Info

Touch CONFIG followed by STORE / DEPARTMENT INFO to display the Information Edit screen.



Store Information Edit Screen

To edit the field, touch the corresponding line and follow the editing instructions. When you are finished editing, touch QUIT to save the changes.

Edit Name/Address Information

To edit the store or current department Name or Address, touch the corresponding line and make the changes through the alphanumeric keyboard. The names can be up to 12 characters, while the address lines can be up to 32 characters.

Edit Current Department Bar Code Number

To edit the UPC number, touch the **DEPT UPC** line and then enter the Bar Code number for the current department. This number can be used in place of the Item Number for some Bar Code formats, and can be up to 10 digits.

Edit Operator Names

Operator Totals allow totals to be recorded for up to 30 operators per department. The operator numbers can be any 1 to 4-digit number from 1-9999 and do not need to be sequential. To enter new operator names, touch one of the **OPERATOR** lines and then enter the desired operator number (1-9999) through the numeric keyboard. When the alphanumeric keyboard displays, enter the operator name (up to 20 characters). Note: The operator slots that are not defined have an Operator Number of 0. Up to 30 operators can be defined per department. (Page through the list to find additional operator slots.) The operator totals must be enabled in each satellite for accumulation to take place in the master.

Department Number

To change the Master Editor current department, enter the new department number through the numeric keyboard or choose from the list. The new current department number will be displayed at the bottom of the Master Editor Menu screen.

Auto Configuration Rate

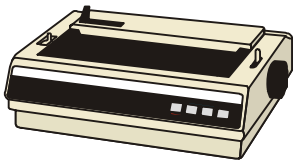
This section is used to set the rate of Autoconfiguration. Autoconfiguration is the transmission of satellite addresses (along with a request for connection command) to addresses not yet connected to the network. This permits addition of new satellites to the network without having to manually tell the Master about the new satellite. The autoconfigure rate is the time (in seconds) between each network autoconfiguration sequence. To set the auto configure rate, touch CONFIG followed by AUTO CONFIGURE RATE and enter the desired number of seconds (4-60) through the numeric keyboard. Setting the rate low may slow network response. The default is 5.

Master Peripherals

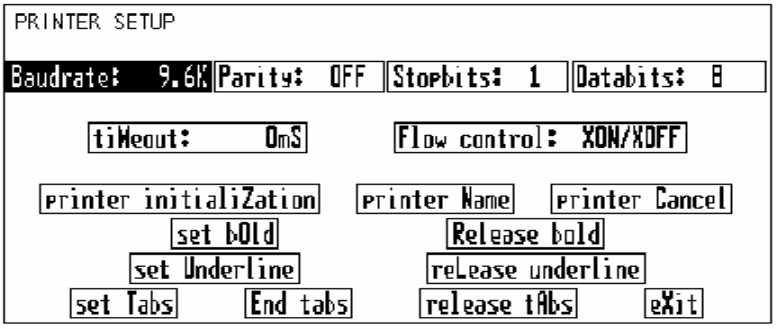
Touch Master Peripherals to configure the master serial ports for the report printer and host. Select PRINTER to configure the Master Report Printer or HOST to configure host communication parameters to a computer or modem.

Peripheral Selection Screen

PRINTER



A serial RS232 printer can be connected directly to the REM/STEM for printing reports. Touching PRINTER will open the Printer Setup screen below.



Printer Port Setup Screen

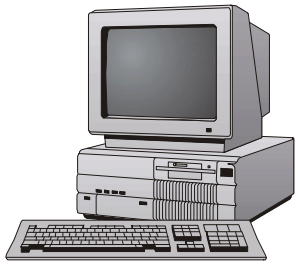
DB9 Printer Port
Pin 2 Transmit
Pin 3 Receive
Pin 7 Ground

The options for the RS-232 serial-printer port are as follows.

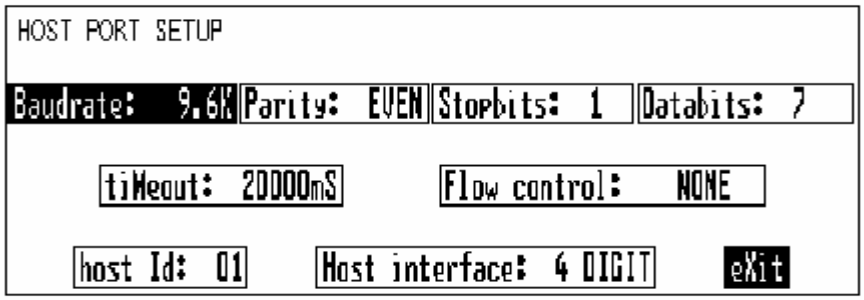
Baud Rate	From 1.2k to 115k. This must match the printer. Default is 9.6k baud.
Parity	Even, Odd, Low, High, or Off (no) parity. Use Off for the 88XX Printers. When using 7 data bits, select Even Parity, and when using Off, select 8 data bits.
Stop Bits	Selections are 1, 1.5, and 2. Use 1 Stop Bit for the 88XX Document Printers. Most applications use 1 stop bit.
Data Bits	Selections are 5, 6, 7, and 8 data bits (sometimes-called word length). Use 8 data bits for the 88XX Document Printers.
Time Out	This selection is not used for normal printing functions. The default is zero.
Flow Control	Type of control between the host device and a peripheral that will start and stop data transfer to prevent an overflow condition. XON/XOFF is software handshaking and should be selected for the 88XX Document Printers.
Printer Initialization	This selection is used to enter printer Hex Control Codes used to set up the printer before printing a document. The standard initialization code for the 88XX is: 18,1B,40,1B,39,1B,49,00,1B,4D,0F,1B,42,3C.
Printer Name	This is used for reference only.
Printer Cancel	This hex code is used to stop or cancel whatever the printer is doing. The 8842/8843/8844/8845 use hex code 18 for cancel.
Set Bold	This hex code is used to turn on bold or emphasized printing. The 8842/8843/8844/8845 use 1B,45 for bold print.

Release Bold	This hex code is used to return the print to regular (non-emphasized) print mode. The 8842/8843/8844/8845 use 1B,46 for release bold.
Set Underline	This hex code is used to turn on underline printing. The 8842/8843/8844/8845 use 1B,2D,31 for underline print.
Release Underline	This hex code is used to turn off underline printing. The 8842/8843/8844/8845 printers use 1B,2D,30 for underline print.
Set Tabs	Tab spacing. The 8842/8843/8844/8845 use 1B,44 to set tabs.
End Tabs	End tabs are not normally used with the master reports.
Release Tabs	Releases tab spacing. The 8842/8843/8844/8845 printers use 1B,52.

HOST



Touching HOST will display the Host Port Setup screen below and allow configuration of the serial port for a host PC and WinDataBack.



Host Port Setup Screen

The selections for the Host Port configuration are as follows:

Baud Rate	The baud rate (in Kilobytes) can be selected from 1.2k to 115.2k. This must match the baud rate of the host or WinDataBack. The default is 9600 baud. Note: High speed UARTS are recommended on the PC serial port for speeds above 9.6k baud.
Parity	Select Even, Odd, Low, High, and Off can be selected. Use EVEN parity for Intelli-Net and DataBack. (Note: Off and No parity are the same.) The default is EVEN.
Stop Bits	Selections are 1, 1.5, and 2. Use 1 Stop Bit for WinDataBack. The default is 1.
Data Bits	Selections are 5, 6, 7, and 8 data bits (sometimes called "word length"). Use 7 data bits for WinDataBack. The default is 7.
Time Out	This selection is used to end host communications if no response is detected. The default is 20000mS (milliseconds).
Flow Control	This selects hardware, software, or no handshaking. Flow Control sets up communication between the host device and a peripheral that will start and stop data transfer to prevent an overflow condition. Use NONE with WinDataBack. The default is NONE.

Host ID — The Host ID is used by a host computer to communicate with a specific device. This number must match the number programmed at the host to identify this master. ID numbers from 1 to 99 can be used, but must not be duplicated if other units are connected to the host. ***NOTE: POWER MASTER DOWN AFTER CHANGING THE HOST ID TO RESET THE ID IN MEMORY.*** The default is 01. The Ethernet Host communication will also use this address to identify the master.

Host Interface — If using an old host protocol (host thinks master is an 8422-type master), this selection is used to configure the external host communications for a **6-digit PLU** or a **4-digit PLU** database.

Database Diagnostics

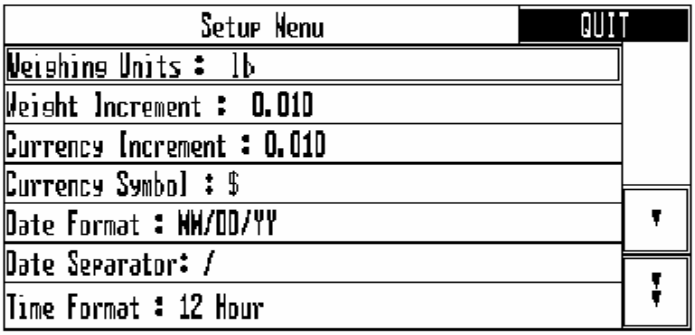
This section is used for a factory diagnostic tool and should not be changed.

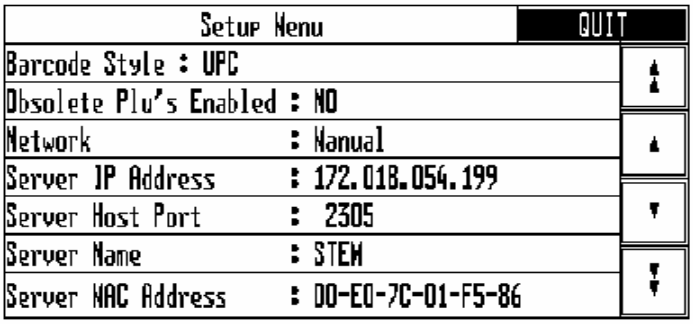
Setup Master

Note: If the application software is updated, you will need to either use LOAD_IP2.EXE to set the IP address or connect the REM to a TNET satellite in order to first connect to the master editor. LOAD_IP2 is explained in the "PC and Network Interfacing" chapter.

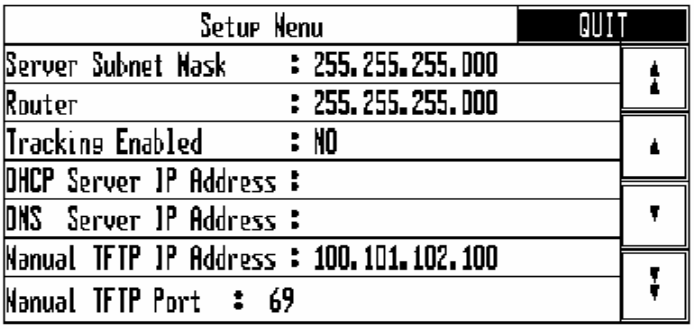
This section is defines master defaults including Weighing Units (lb/kg), Weight Increment, Currency increment, Currency Symbol, Date Format, Date Separator, and Time Format. Touch the Page Down key to display Barcode Style, Obsolete PLUs, and Master IP Address. When Obsolete PLUs are enabled, creating a regular pending PLU or PCO (Price Change Only) PLU will automatically create an Obsolete PLU with the old price, accumulators, effective time/date. The new PLU will have zero accumulators.

The DHCP features will allow the client scale or scale server to obtain initial TCP/IP parameters from a DHCP or BOOTP server on the Ethernet network instead of manually setting these parameters.





Network settings from here down display only when "Network" is set to "Automatic".


Setup Menu
QUIT
Server Subnet Mask : 255.255.255.000
Router : 255.255.255.000
Tracking Enabled : NO
DHCP Server IP Address :
DNS Server IP Address :
Manual TFTP IP Address : 100.101.102.100
Manual TFTP Port : 69

Setup Master Screens 1, 2 and 3

The selections on the setup screens are explained below.

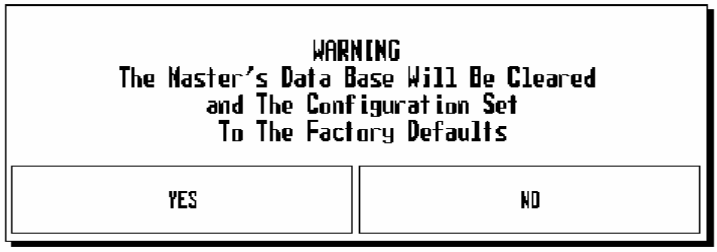
Selection	Description
Weighing Units	This must match the weighing mode of the Clients and Satellites, either lb or kg.
Weight Increment	This must match the weighing mode of the Clients and Satellites. Normally 0.010 lb or 0.005 kg.
Currency Increment	The smallest division of the local currency.
Currency Symbol	When selected, the Alphanumeric keyboard will display. The symbol can be any character on the keyboard.
Date Format	Select from four different formats. MM/DD/YY, DD/MM/YY, YY/MM/DD, YY/MON/DD. Default is MM/DD/YY.
Date Separator	Select the slash "/", dash "-", or period "." for a date separator.
Time Format	Select either 12-hour or 24-hour time.
Barcode Style	Select UPC or EAN barcodes.
Obsolete PLU's Enabled	Enable or Disable obsolete PLUs. Obsolete accumulators are accumulators that are saved when weekly data for PLU's are updated.
Network	You must first select the network boot type, **Manual** or **Automatic**. Automatic is the default. Automatic will use DHCP to automatically obtain the network boot information from a DHCP server. The parameter details are explained below. When **Automatic** is selected, the DHCP feature will be used. The "Server IP", "Server MAC", "Subnet Mask", "Router", "DHCP Server", and "DNS Server" fields will display but cannot be changed. Changes will be allowed in the "Server Host Port" and "Server Name" fields. If **Manual** is selected, then the DHCP feature is disabled and the TCP/IP parameters must be entered manually. The "Server MAC" field will display but no changes are allowed. The "DHCP Server" and "DNS Server" fields will not display and changes are not allowed to these fields. Changes will be allowed in the "Server IP", "Server Host Port", "Server Name", "Subnet Mask", and "Router" fields.

Selection	Description
Server IP	This is the REM current IP address. If the "Network" is set to "Automatic", this field cannot be changed. If the "Network" is set to "Manual" then this field may be changed. The IP address is entered one octet at a time. The default value for this field is 255.255.255.000. **Local Use Networks** - If the Ethernet network is local, arbitrary numbers can be selected for the IP Address. The IP Address consists of a group of four numbers from 0 to 255, separated by periods, for example: 207.142.140.101. Do not duplicate numbers on the network. **Use on Networks Connected to the Internet** - If the network connects to the Internet, the network IP addresses must be obtained and registered with American Registry for Internet Numbers (ARIN, http://www.arin.net). When used on the Internet, the IP Address is used to specify hosts and networks. Internet Protocol (IP) numbers are part of a global, standardized scheme for identifying machines that are connected to the Internet. A Network Administrator or System Engineer should be consulted on these issues.
Server Host Port	TCP port number used for host communications. A 4-digit value may be entered from the numeric screen. The default value for this field is 2305 and should not be changed for most configurations.
Server Name	Local domain name for the REM. All other devices on the network will reference the REM by using this name when the "Network" is set to "Automatic". If more than one REM or STEM is used on a network, each STEM must have a unique name. If not, only one REM or STEM will be functional and allow connection by clients.
Server MAC	Hardware Media Access Control (MAC) address. Each Ethernet device has a unique 6-byte MAC address. This field is displayed but cannot be changed.
Subnet Mask	The Subnet Mask is used to identify the local network when accessing IP address on the Ethernet network. If the "Network" is set to "Automatic" this field cannot be changed. If the "Network" is set to "Manual" this field may be changed. The mask is entered one octet at a time. The default value for this field will be 255.255.255.000. For a Subnet Mask on a local network, use an unused address such as 255.255.255.0. A subnet mask is used with an IP address to subdivide a network into smaller networks, allowing a greater number of nodes on a network with a single IP address. The Subnet Mask is the part of the IP address used to represent a sub network within a logical network. By using Subnet Masks, network address space is available that would normally be unavailable. Subnet Masks also ensure broadcasts are not sent to the whole network unless intended. The default Subnet Mask, 255.255.255.0, is recommended to reduce network traffic. When Subnet Mask, 255.255.255.0 is used, the broadcast range would be the local Subnet only as follows: 255.255.255.0 Subnet Mask 207.142.140.XXX IP Address with a broadcast range of XXX. 255.255.0.0 Subnet Mask 207.142.XXX.XXX IP Address with a broadcast range of XXX.XXX Using the Subnet Mask, 255.255.255.0, improves network performance by reducing broadcast traffic.
Router	The router's (default gateway) IP address. The router is used when accessing devices outside of the local network. If the "Network" is set to "Automatic" this field cannot be changed. If the "Network" is set to "Manual" this field may be changed. The IP address is entered one octet at a time. The default value for this field will be 255.255.255.000.

Selection	Description
Tracking Enabled	YES Allows reports to be pulled from the master that use the tracking number associated with COOL in the PLU record. NO is standard reporting (default setting).
DHCP Server	This is the current IP address of the local network's DHCP server. This field will only be displayed when the "Network" is set to "Automatic" and cannot be changed.
DNS Server	This is the current IP address of the local network's DNS server. This field only displays when the "Network" is set to "Automatic" and cannot be changed.
Manual TFTP IP Address	This is the current TFTP (Trivial File Transfer Protocol) IP Address.
Manual TFTP Port	The default port is 69. This setting can be changed by the system administrator if needed.
Manual Boot File Name	This is the file name of the application or configuration file that will be downloaded to the scales.
DST 2007 Enabled	**Y** = Use 2007 US DST Rules **N** = Use Pre-2007 DST Rules

Initialize RAM

This function will reset the master to factory defaults and *will clear out all database files* (PLU, NF, ET, Graphics, Totals, etc.). To access this function, select SETUP, MASTER EDITOR. Enter the password, and then select CONFIG/INITIALIZE RAM. This displays a warning screen with a confirmation to reset the scale to factory defaults.



Initialize RAM selection screen

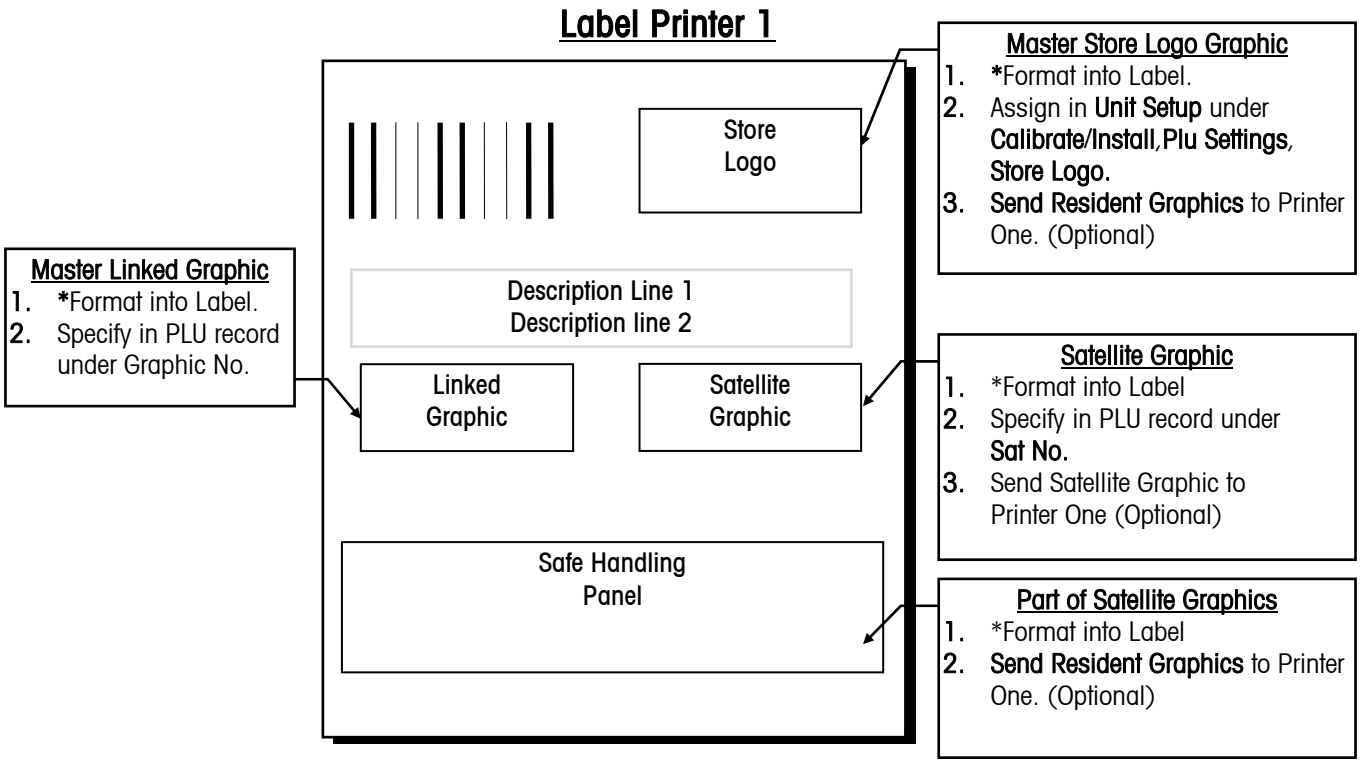
METTLER TOLEDO

For your notes

8 Graphics

Printing Graphics on the Model 8360 or 8361

The following section describes the graphics printing capability of the Model 8360 or 8361 with the Model 317 Standard Printer and DayGlo Printer.


Label Printer 1
Master Store Logo Graphic
1. *Format into Label.
2. Assign in Unit Setup under Calibrate/Install,Plu Settings, Store Logo.
3. Send Resident Graphics to Printer One. (Optional)
Store Logo
Master Linked Graphic
1. *Format into Label.
2. Specify in PLU record under Graphic No.
Description Line 1
Description line 2
Linked Graphic
Satellite Graphic
Satellite Graphic
1. *Format into Label
2. Specify in PLU record under Sat No.
3. Send Satellite Graphic to Printer One (Optional)
Safe Handling Panel
Part of Satellite Graphics
1. *Format into Label
2. Send Resident Graphics to Printer One. (Optional)

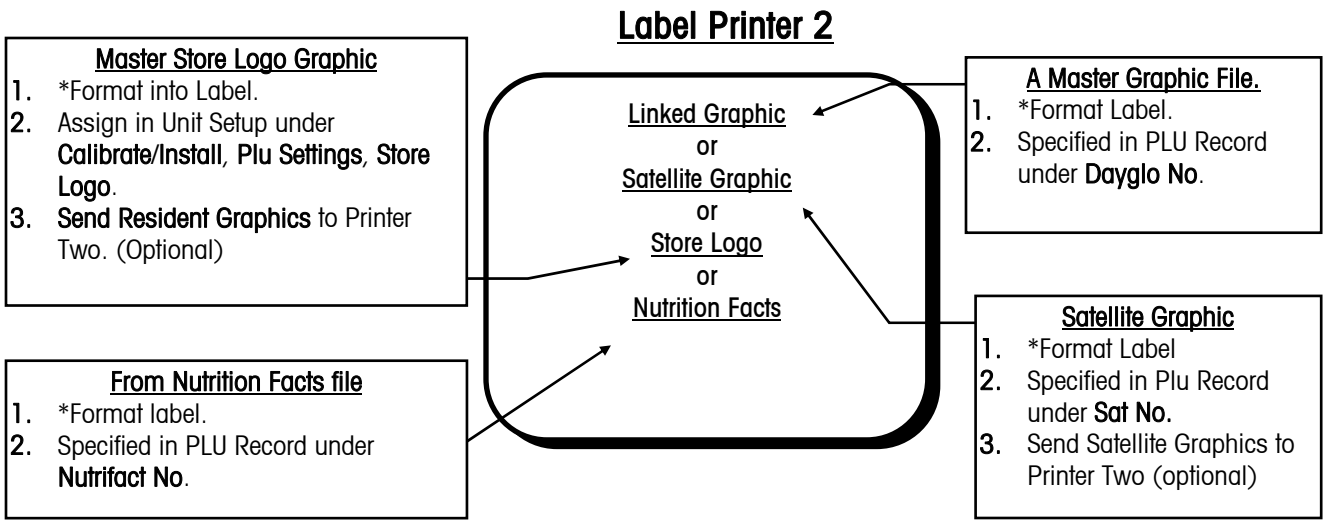
* When formatting Graphics into a label you can accomplish this by creating a custom label format or by choosing a default format that contains the graphics setup.

Up to 4 Graphics can be printed on Printer 1 Label printer, 1 of each of the above.

There are only 2 graphic files, The **Master Graphic File** (stored in the master and may be added to and modified) and the **Satellite Graphic file** (which contains 15 graphics and the **Safe Handling Panel** and cannot be added to or modified)

If label 1 and label 2 both contain a **Satellite Graphic** the same graphic will print on both, only one **Satellite Graphic** can be specified in PLU Record.

Should the **Store Logo Graphic** ever be changed, the Model 8361 will automatically send the Logo to the printer. You can send **Resident Graphics** each time you change it if you wish.


Label Printer 2
Master Store Logo Graphic
1. *Format into Label.
2. Assign in Unit Setup under Calibrate/Install, Plu Settings, Store Logo.
3. Send Resident Graphics to Printer Two. (Optional)
From Nutrition Facts file
1. *Format label.
2. Specified in PLU Record under Nutrifact No.
Linked Graphic
or
Satellite Graphic
or
Store Logo
or
Nutrition Facts
A Master Graphic File.
1. *Format Label.
2. Specified in PLU Record under Dayglo No.
Satellite Graphic
1. *Format Label
2. Specified in Plu Record under Sat No.
3. Send Satellite Graphics to Printer Two (optional)

*Format is chosen in **Printer Setup/Printer 2.** When formatting Graphics into a label choose a default format that contains the graphics setup, or use a custom format.

Model 8360 or 8361 Satellite Graphics

The following graphics are resident in the Model 8360 or 8361 satellite. The graphics are permanent and cannot be edited, added, or deleted.

Satellite Graphic #1

Satellite Graphic #2

Satellite Graphic #3

Satellite Graphic #4

Satellite Graphic #5

Satellite Graphic #6

Satellite Graphic #7

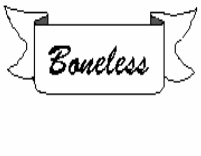
Satellite Graphic #8

Satellite Graphic #9

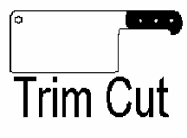
Satellite Graphic #10

Satellite Graphic #11

Satellite Graphic #12

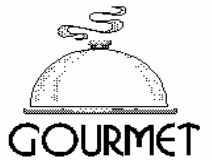


Satellite Graphic #13



Satellite Graphic #14

Satellite Graphic #15



METTLER TOLEDO

For your notes

9 COOL Text

Overview

Country of Origin Labeling (COOL) is information assigned to a specific PLU that designates where a product came from and the processing it went through.

In many ways COOL records (Country of Origin Labeling) are treated very similar to ingredients records. COOL records must be assigned to a PLU in order to print, exactly how Ingredient information works.

COOL implementation involves a combination of COOL Text Records, COOL Production Text Records, COOL Countries and possibly COOL Pretext.

COOL Records

COOL Text

COOL Text records contain the complete statement of how the product was harvested and where it was harvested. Common examples of a COOL Text record are "Wild Caught" or "Product of USA".

Multiple COOL Texts can be chained together to give an operator more selections. This is useful for a retailer that purchases an identical product from multiple countries.

Production Text

Production text are statements in the list such as "Produced in", "Processed in". Production text is created the same way as COOL Text.

Country Text

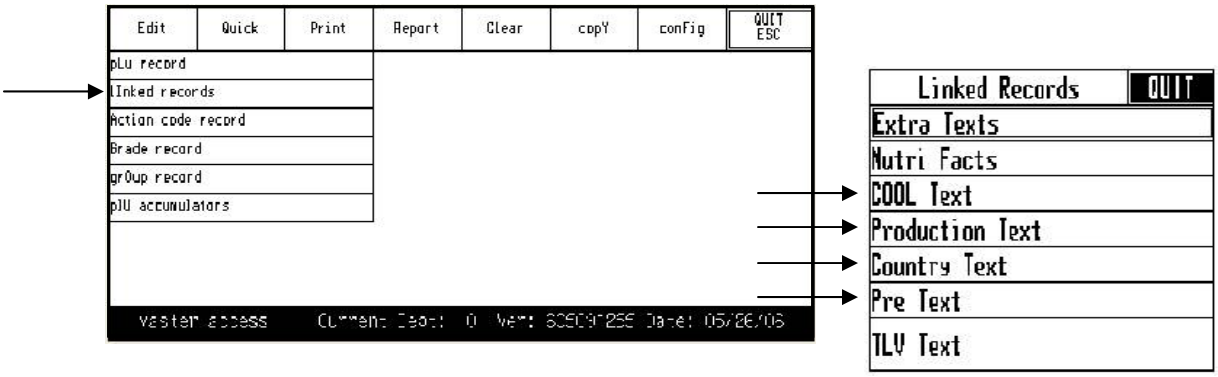
Country text is a list of countries and the individual country names (literals). Country text and text lists are created the same as COOL Text as described above.

Pre Text

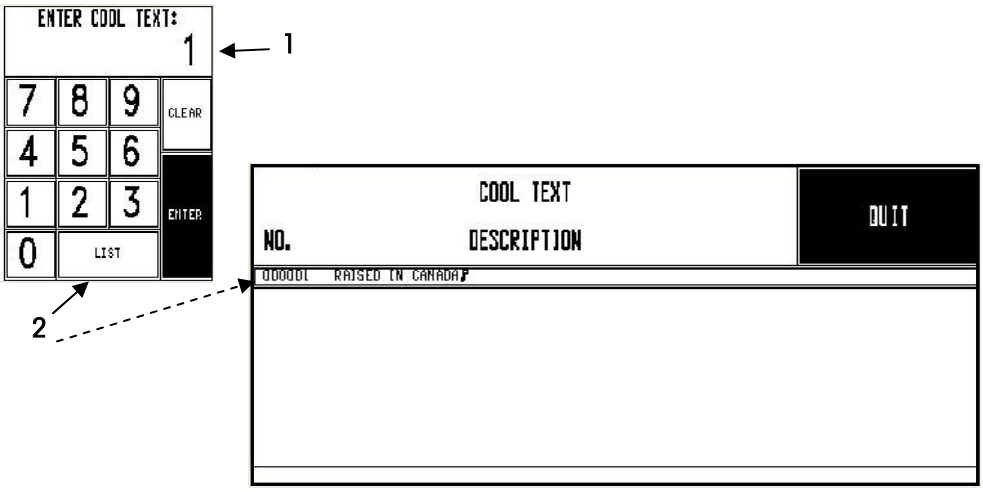
Pre Text is a word or phrase that prints before the COOL Text on a label. Pre Text is programmed into the PLU record and cannot be overridden by the operator. Pre text and text lists are created the same as COOL Text as described above.

Setting up COOL Records

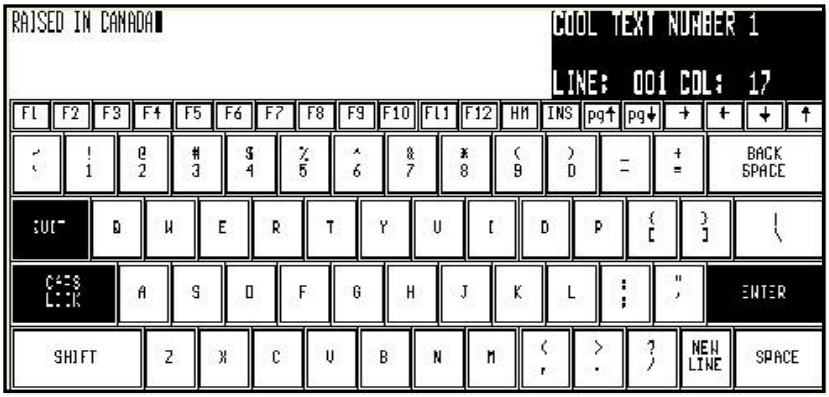
From the EDIT menu in the Master Editor select Linked Records. Depending on what component of COOL you wish to edit, select COOL Text, Production Text, Country Text or Pre Text.



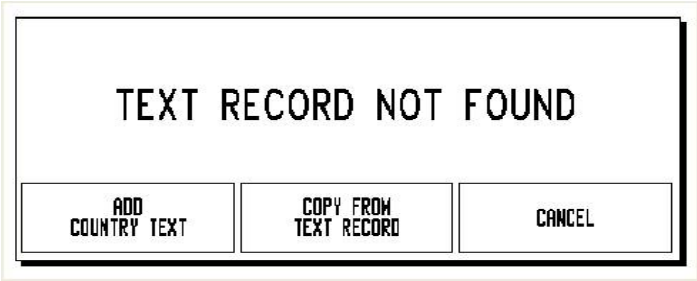
Enter the number associated to the COOL record on the keypad (1) and hit Enter or you hit the LIST button (2) to see a list of all COOL Text available and select the record you want to edit.



You will be asked if you wish to EDIT or DELETE, if you wish to EDIT, at this point the keyboard will appear and you can edit the text associated with the COOL record. When finished editing, press F10 to save and exit or QUIT to exit without saving.



If the COOL record you entered does not exist, you will have the option to **ADD** the record as a new COOL Text Record, **COPY** from an existing Text Record or **CANCEL**.

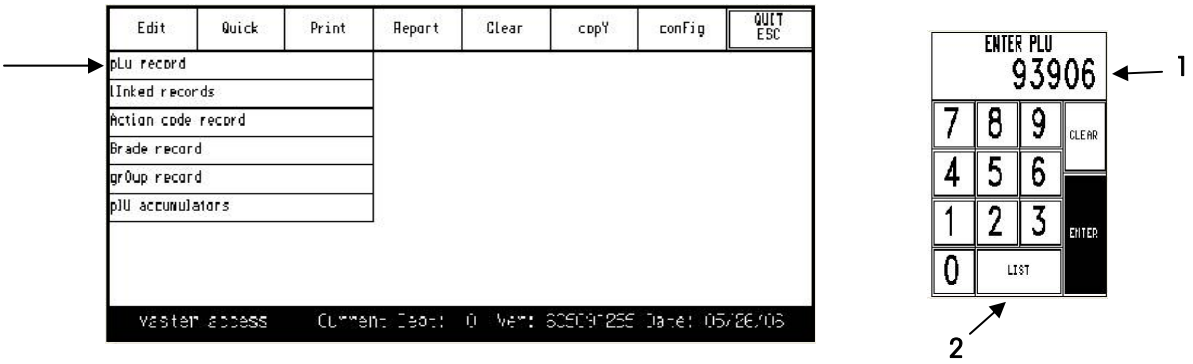


If **ADDING** in as a new record, again the Keyboard will appear and the text information can be entered. Proceed as described above for editing a COOL record.

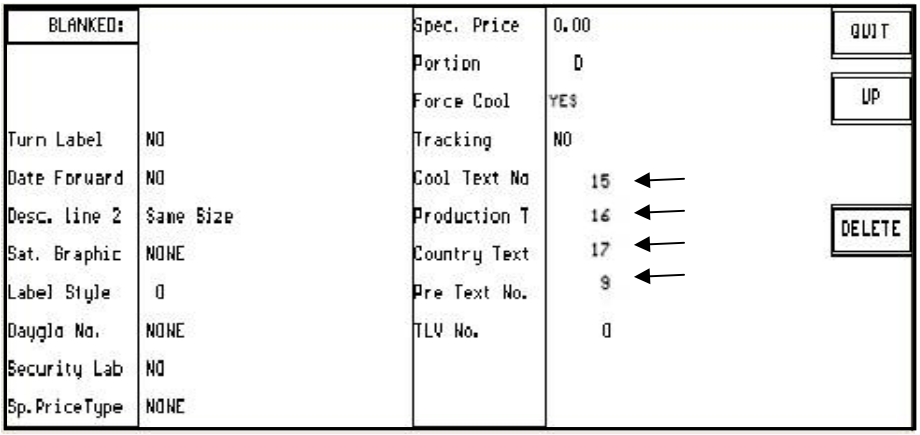
If **COPYING** from an existing Text record, enter the number of the existing record you wish to copy from or select from a list. Then proceed to edit if needed.

Assigning COOL Records to a PLU

From the EDIT menu in the Master Editor select PLU Records. And enter the number of the PLU you wish to edit (1) or hit the List Button (2) to see a list of active PLUs.



On the second PLU record Edit screen (hit the DOWN button to access); you can assign a COOL Text, Production Text, Country Text and / or Pre Text record.



Touch the record you wish to edit and then using the numeric keypad type in the COOL record number or hit the LIST button to select from a list of available COOL records.

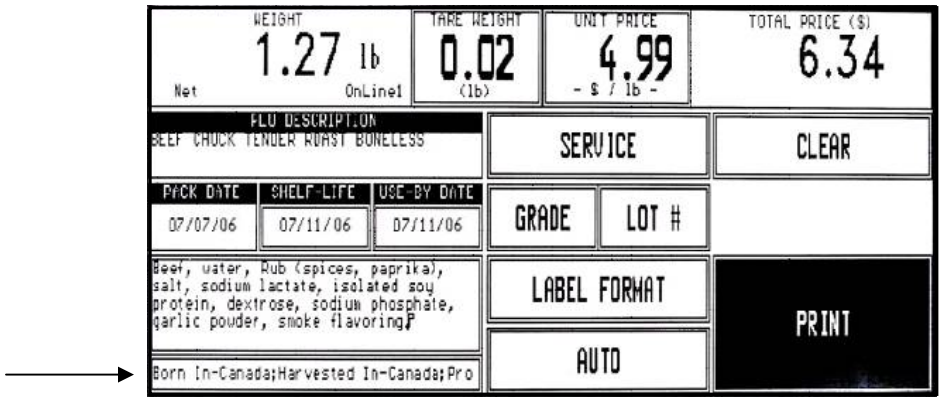
Hit QUIT when complete and then YES to save your changes.

PLU Edit Screen & COOL

If COOL Records have been "forced" on a PLU you may need to verify or edit them

When COOL Text is enabled, the PLU Edit screen will show the programmed default COOL text. As described above, the COOL Text is normally programmed into the PLU record and this pre-programmed COOL statement will be called up with the PLU record.

However, if allowed, you can over-ride this setting from the PLU Edit screen.



UC-ST's PLU Edit Screen showing COOL Text

For additional details in working with COOL Records at this point, please refer to the specific User's Guide that came with your scale.

COOL Linked Record Examples

COOL Text

Note: It is also possible to reference a list number within a list. Example: list 000001 is embedded within linked record 000002 below as element 2.

Linked Record Type	Linked Record #	Data
05	000001	[esc]+500005T[esc]+500006T[esc]+500007T[esc]+500008T
05	500005	Raised in – Canada; Harvested – Canada; Processed in – USA;
05	500006	Product of – Mexico; Processed in - USA;
05	500007	Born in - Canada; Raised in - Canada, USA; Processed in – USA;
05	500008	Harvested in – Mexico; Processed in – USA;
05	000002	[esc]+500005T[esc]+000001T[esc]+500006T

Production Text

Linked Record Type	Linked Record #	Data
06	000004	[esc]+600013T[esc]+600014T[esc]+600015T[esc]+600016T
06	500013	Raised in
06	500014	Product of
06	500015	Born in
06	500016	Harvested in

Country Text

Linked Record Type	Linked Record #	Data
07	000025	[esc]+000032T[esc]+000033T[esc]+000034T[esc]+000035T
07	500032	Argentina
07	500033	Canada
07	500034	Mexico
07	500035	USA

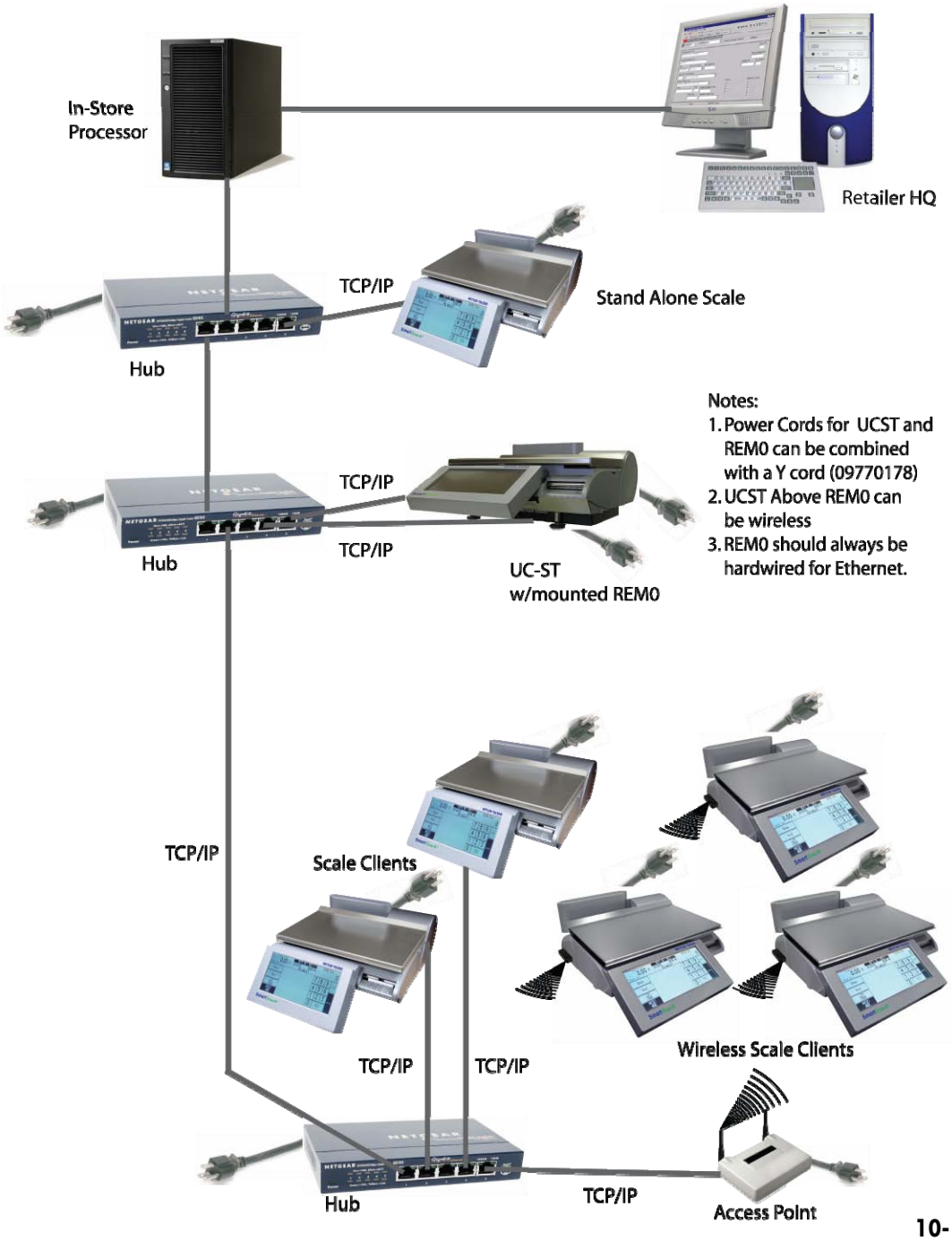
Pre Text

Linked Record Type	Linked Record #	Data
08	000034	Farm Raised
08	000053	Wild

10 Remote Access

Remote Access

There are three ways to access the STEM or REM for configuration and programming: Remote host, TNET Satellite, or Ethernet Client. However, if the STEM/REM is new, the network setup must first be performed using a TNET Satellite or by RS232 Serial Host using WinDataBack. The Ethernet Client and Ethernet Host will not work in this case because the network settings would not be configured yet.



METTLER TOLEDO

For your notes

11 Rackmount Ethernet Master

General Description

The **R**ackmount **E**thernet **M**aster will be referred to as either Ethernet Master or REM.

The METTLER TOLEDO® REM (Rackmount Ethernet Master) is designed for connection to a network of METTLER TOLEDO TNET Satellite or Ethernet Client scales and controllers through a wired RS485 high-speed network, a wired Ethernet network, or a wireless Ethernet network. The REM will support both TNET and Ethernet scales. Each REM can support up to 24 TNET satellites and 25 Ethernet Clients. The REM acts as the server on the network providing the satellites and clients with PLU file information. Any **Smart*Touch*®** satellite or Ethernet Client (Model 8361, 8461, or UC-ST) on the network can access the REM master editor for setup and programming.

Models that can be connected to the REM include: Model 355, 2450, 8361, 8450, 8461, and UC-ST.

Programming functions in the REM are identical to the **Smart*Touch*®** Master and STEM (SmartTouch Ethernet Master).

The REM comes in three models:

- **REM0-5220** - for mounting underneath a UC-ST unit.
- **REM0-5210**- for rack mounting.
- **REM0-5200** - for rack mounting only (pre-2007)

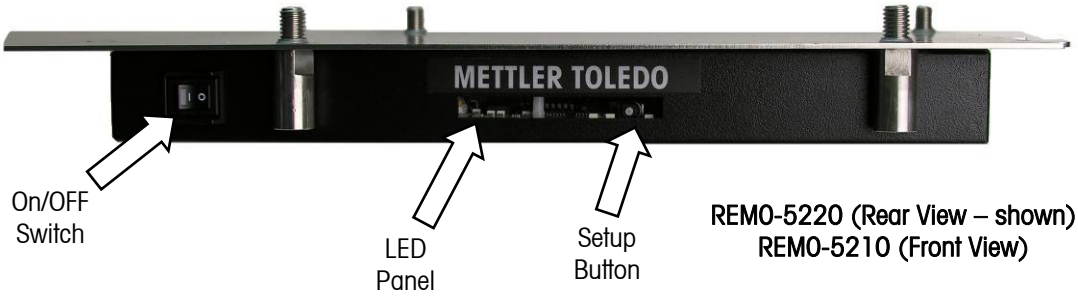
ISO9001
This product was developed, produced and tested in a Mettler Toledo facility that has been audited and registered according to international (ISO 9001) quality standards.

REM0-5220 (Front View)

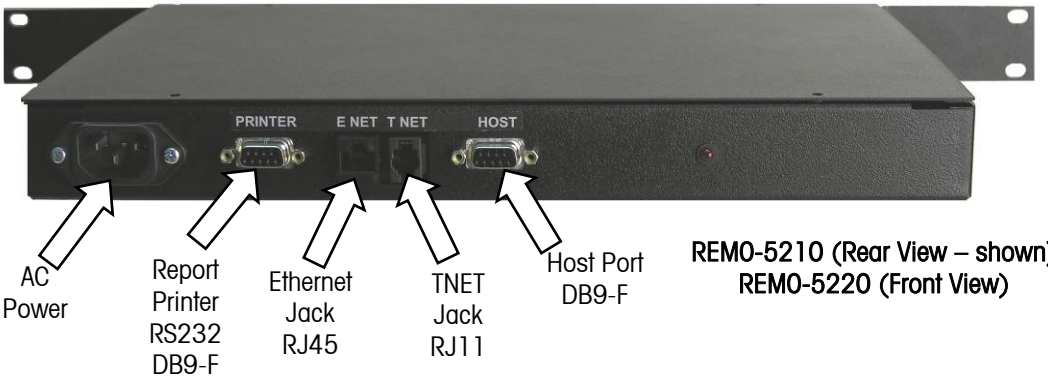
REM0-5210 (Front View)

REM0-5200 (Front View)

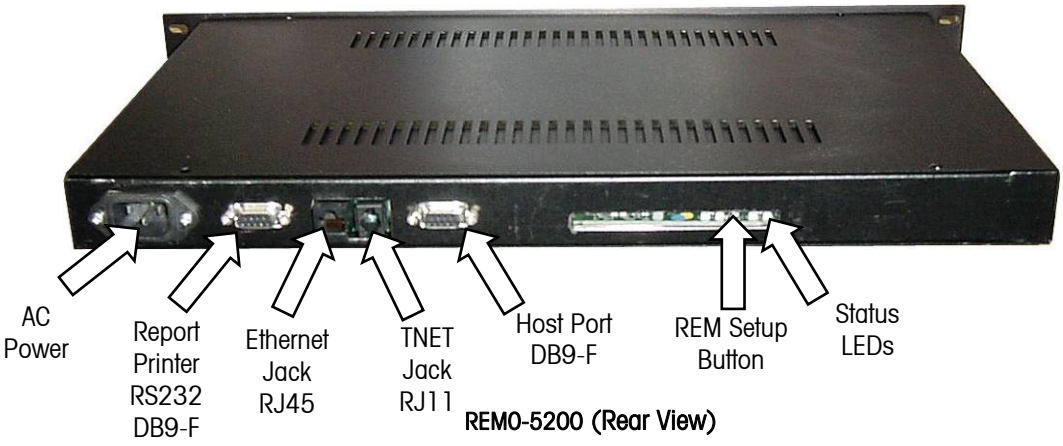
Panel Connectors



REM0-5220 (Rear View – shown)
REM0-5210 (Front View)



REM0-5210 (Rear View – shown)
REM0-5220 (Front View)



REM0-5200 (Rear View)

LED Panel

The LEDs on the Master Board can be seen through a clear panel on the front of the REMO-5210 and on the rear of the REMO-5200 and REMO-5220.

Functions of the LEDs are shown below.

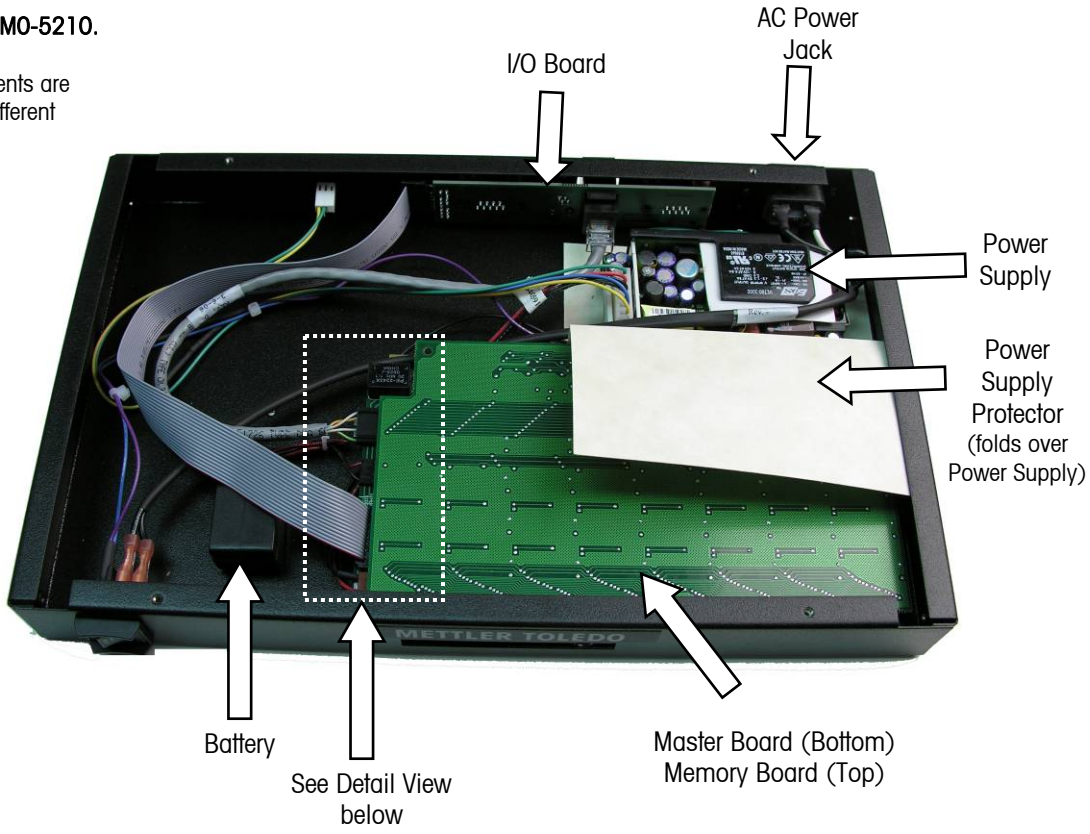
LED Panel

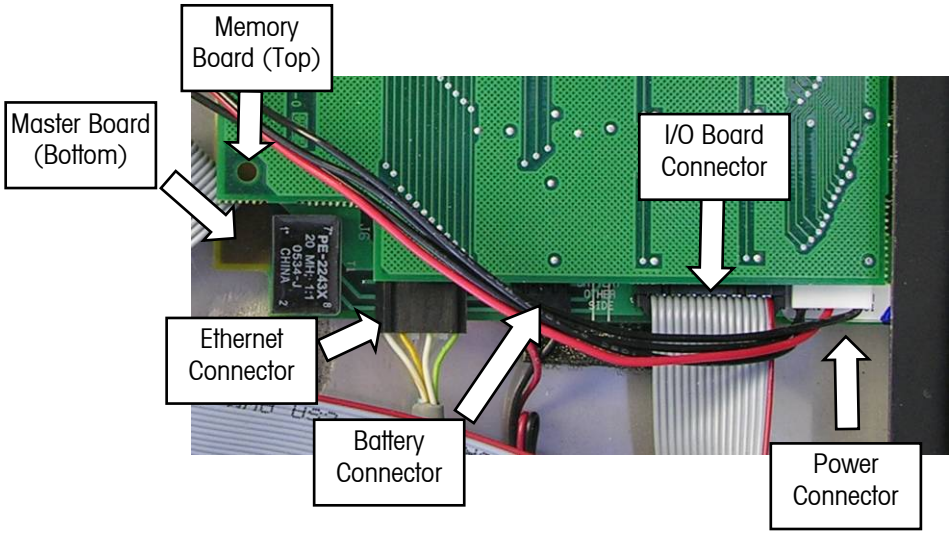
LED	Function
I1	ON when receiving and processing host commands.
I2	When flashing (downloading) operating system software, this LED will be ON. In normal operation, if an error is detected in the master program, the LED will be ON. Normally this LED is OFF.
I3	This LED will alternately flash ON / OFF with LED I4 while the master software is starting up. This will last for about 3 seconds. Afterwards, this LED indicates TNET communications. When no TNET satellites are detected, the LED will be blinking at a slow rate. It will actually look dim at this rate. If TNET satellites are detected, the LED will be turned ON more during most of the blinking and will look brighter.
I4	This LED will alternately flash ON / OFF with LED I3 while the master software is starting up. This will last for about 3 seconds. This LED should be ON during normal operations. If it is not ON, the software has failed to properly start.
I5	(BSE) This LED will be ON when the Ethernet controller is being accessed. If data packets are received or transmitted this LED will be ON briefly.
I6	(RX) This LED will be ON whenever Ethernet data packets are received for the master.
I7	(LNK) This LED will be ON if the master is properly connected and communicating to a hub.
I8	(TX) This LED will be ON whenever the master transmits Ethernet data packets.

Internal Components

View is of the **REMO-5220/REMO-5210.**

REMO-5200 internal components are identical but have a slightly different placement.

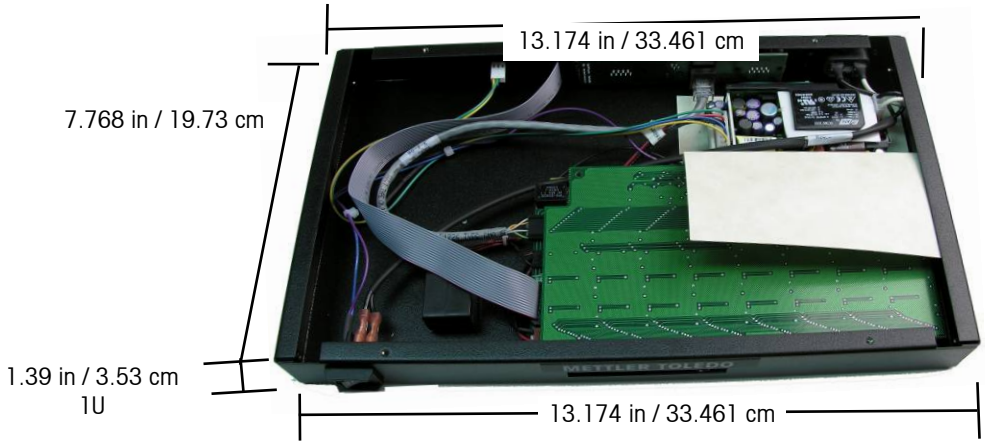




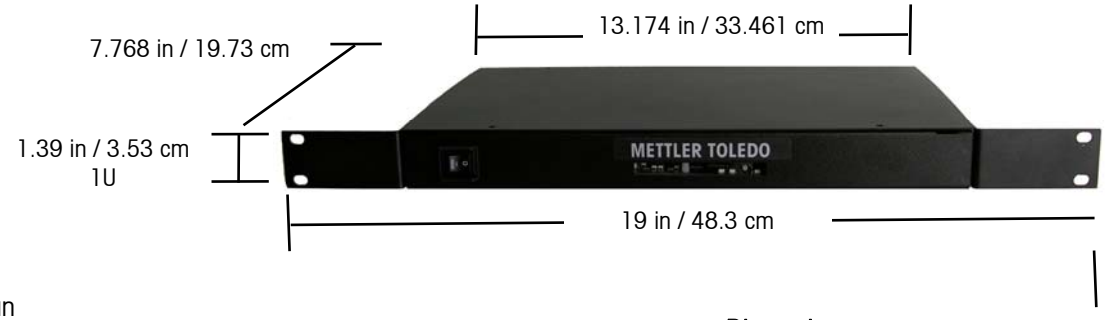
Dimensions

The **REM0-5220** is shipped to be mounted underneath a UC-ST unit.

The **REM0-5210** and the **REM0-5200** are designed to fit a standard 19″ / 48.3 cm rack.

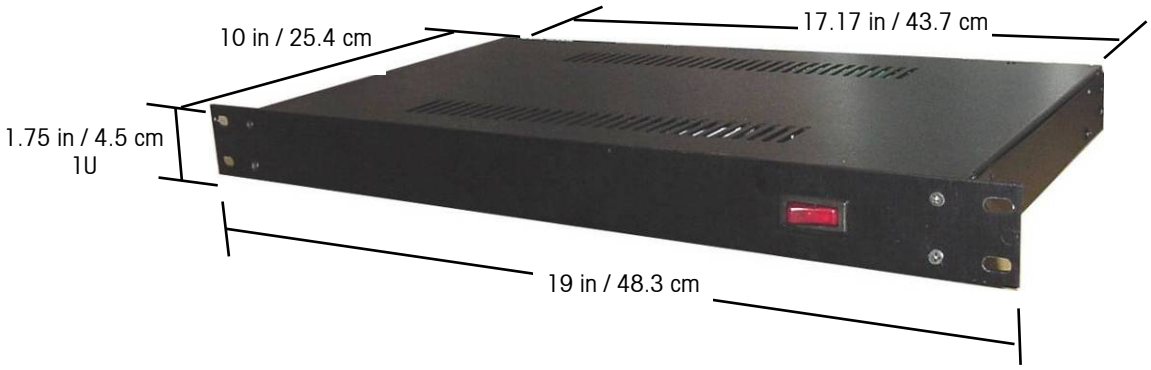


REM0-5220 Dimensions



REM0-5210 Dimensions

NOTE: for rack mounted models, an additional 3″ / 7.62 cm should be allowed behind the enclosure for the power cord and other cable connections.



REM0-5200 Dimensions

Agency Approvals

The REM is designed to meet the requirements of the following agencies:

UL UL114 Office Appliances and Business Equipment. UL746.51

FCC Requirements for FCC Conducted Emissions and Radiated Emissions for a Class A device.

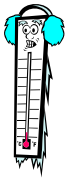
TNET Communications

The master/satellite communication network (TNET) uses RS485 Synchronous Data Link Communication (SDLC) at 345k baud. A transformer provides isolation with no DC connection between the scales. A four-conductor modular connector telephone cable is used to connect each scale to the network. The maximum recommended data cable length is 1500 feet (457 meters), including the 25-ft scale drops. The ends of the main data cable must be terminated using a 113-ohm resistor (P/N 12839300A provided with each master) to provide impedance matching. The master can be located at any point on the network. However, when nearing the maximum cable length of 1500 feet, the master should reside near the middle.

Ethernet Communications

The Ethernet communications use standard TCP/IP protocol over a standard Ethernet network at 10 Mbps.

Operating/Storage Temperature



Operating Range: 10ºC to 40ºC (50ºF to 104ºF), humidity from 5% to 95% non-condensing.

Storage Range: 0ºC to 70ºC (32ºF to 158ºF), with humidity from 5% to 95% non-condensing.

Memory Board

The REM is available with 2 MB, 4 MB, or 8 MB (MB = megabyte) battery-backed RAM Memory PCB's. The RAM is battery-backed and is supported when AC power is disconnected from the unit for up to two years (depending on the time the unit is disconnected from AC power). The alkaline battery is not recharged on the PCB. Size requirements can be computed using the following record size specifications.

- Each PLU record uses 330 bytes.
- Extra Text uses up to 3240 bytes (not including 13 bytes overhead). The extra text formula is: *(Lines x #characters per line)+ 13= #bytes required*. For example: 10 lines x 42 char/line = 420 bytes per record. (60 lines max.)
- Nutrifact records use 393 bytes per record.
- Graphics can be up to 6k per record.

For example:

1000 PLU records:	330k
1000 ET records:	433k
1000 NF records:	393k
100 Graphics:	600k
Total	1756k (approximately 1.7 MEG)

Host Interface

Two types of serial host hardware interfaces are available on the host port: RS232 and RS422 Multidrop. The host can also communicate using standard Ethernet Host interfaces. The serial interface is selected by connecting to the appropriate pins on the DB9 connector on the I/O Connector PCB. The RS232 interface is for a single device connected directly to a host computer or modem for full asynchronous communication.

The cable length using the RS232 interface is limited to 100 feet (30.5 meters). RS422 must be used when the distance of the cable may exceed 100 feet, or if there will be more than one master or standalone scale connected on the host network. The maximum cable length when using RS422 is 1200 feet (366 meters). The REM is multi-tasking and can perform complete host communication in the background while servicing requests from the satellite scales.

Unpacking

Remove the REM and accessories from the shipping carton and inspect for damage. Report any damage to the carrier promptly.

Note: If you choose to dispose of the package, please recycle the materials. The packaging is recyclable natural fiber with biodegradable adhesives.

REM0-5210

The 5210 is shipped with the following items:

- REM Unit Power Cord
- (6) M3 Screws
- (2) Extender Brackets

REM0-5220

The 5220 is shipped with the following items:

- REM Unit (with UC-ST Bottom Panel attached)
- Power Cord

Installation Guidelines

Maximum Ambient Temperature

Maximum Ambient Temperature (Tmra) for operation of the REM is 40ºC, measured inside the enclosure. When the REM is installed in a closed or multi-rack assembly, the internal operating ambient (inside the enclosure) may be greater than the room ambient temperature. In this case, consideration must be given the difference in ambient temperature between the room and inside the enclosure.

Minimum Ambient Temperature

Minimum Ambient Temperature for operation of the REM is 0ºC.

Reduced Air Flow – Mounted REM

The REM is designed for mounting only in a standard rack assembly between other rack units. Allow 1/2" between the REM on the top and bottom of the rear enclosure to other mounted units. The REM case is designed with a wider face mounting plate and a narrower enclosure to automatically provide this space. Do not mount other types of rack enclosures next to the REM where the rear enclosure may protrude beyond the plane of the mounting faceplate and reduce the minimum clearance required by the REM.

Electrical Supply

The electrical current draw of the REM is rated at 0.5A at 100 VAC to 240 VAC. This must be taken into consideration when connecting the unit to electrical power with other rack units to avoid overloaded circuits. The amperage rating of all components connected to one circuit must not exceed the rated amperage of the circuit.

Avoid connecting this unit to circuits with heating elements, electrical motors, fluorescent lights, thermostats, etc. Electronic components should be on separate electrical circuits (including the ground) of sufficient amperage.

Grounding

All units must be connected to a reliable earth ground. If a power strip is used, the power strip must include a ground circuit.

Rack Mounting

When installing on a rack or cabinet unit, exercise care to mount the REM securely in the rack using the recommendations of the rack manufacturer.

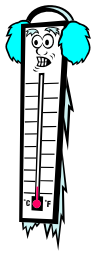
Pre-2007 REMs (**REM0-5200**) are designed for direct mounting in a standard 19″ rack or rack cabinet. Mounting screws are supplied with the REM. Follow the rack manufacturer's guidelines to ensure the rack assembly is secure from tipping.

The **REM0-5210** is also designed for rack mounting. The extender brackets must be attached prior to mounting on a standard 19″ rack, or rack cabinet.

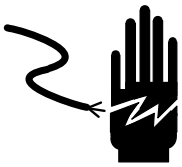
Attach the brackets with the screws provided by lining up the holes of the short side of the bracket to the body of the REM. After the brackets have been attached follow the rack manufacturer's guidelines to ensure the rack assembly is secure from tipping.

Note: the brackets can be attached to the REM body at either the "front" or "back" of the unit. Placement is determined by customer preference as to which side of the unit is to be viewed.

Installation Checklist



Note: If the unit has been stored or transported in below freezing temperatures, allow the unit to warm up to room temperature before turning on AC power.



⚠ WARNING

POWER OUTLETS MUST BE EASILY ACCESSIBLE AND LOCATED NO FURTHER THAN THE LENGTH OF THE POWER CORD SUPPLIED WITH THE PRODUCT. FAILURE TO DO SO COULD RESULT IN RESULT IN PERSONNEL INJURY AND/OR PROPERTY DAMAGE.

- *Rack installation: Install the REM in the rack using the supplied hardware.* After attaching the extender brackets to the REM unit, refer to the rack manufacturers guidelines when installing the REM.
- *Bottom mounting installation: Install the REM underneath a UC-ST.* Refer to the detailed installation guidelines in prior section of the manual.
- *Connect Satellite and STEM Ethernet cables and TNET cable (as necessary).*
- *Install Power Cord, Connect to AC Power, Turn power ON.*
- *Configure Network Settings*. Use 8461/8361 TNET Satellite, WinDataback for Windows® or LOADIP2.EXE to set the IP Number.
- *WinDataBack* - The WinDataback for Windows® Program can be used to backup and restore the PLU file on the REM.

Quality certification. Development, production, and auditing in accordance with ISO9001. Environmental management system in accordance with ISO14001.

Worldwide service. Our dense service network, among the best in the world, ensures the maximum availability and lifespan of your product.

Conformité Européene
This label is your guarantee that our products conform to the latest guidelines.

On the Internet. You can find important information about our products and services, as well as our company, quickly and easily at **http://www.mt.com/support**

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